

# KISUNLA- donanemab-azbt injection, solution

## Eli Lilly and Company

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### HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use KISUNLA safely and effectively. See full prescribing information for KISUNLA.

**KISUNLA (donanemab-azbt) injection, for intravenous use**  
Initial U.S. Approval: 2024

#### **WARNING: AMYLOID RELATED IMAGING ABNORMALITIES**

*See full prescribing information for complete boxed warning.*

Monoclonal antibodies directed against aggregated forms of beta amyloid, including KISUNLA, can cause amyloid related imaging abnormalities (ARIA), as ARIA with edema (ARIA-E) and ARIA with hemosiderin deposition (ARIA-H). ARIA is usually asymptomatic, although serious and life-threatening events can occur. ARIA can be fatal. Serious intracerebral hemorrhages >1 cm have occurred in patients treated with this class of medications. ARIA-E can cause focal neurologic deficits that can mimic ischemic stroke. (5.1, 6.1)

#### **ApoE $\epsilon$ 4 Homozygotes**

Patients treated with this class of medications, including KISUNLA, who are ApoE  $\epsilon$ 4 homozygotes have a higher incidence of ARIA, including symptomatic and serious ARIA, compared to heterozygotes and noncarriers. Testing for ApoE  $\epsilon$ 4 status should be performed prior to initiation of treatment to inform the risk of developing ARIA. Prior to testing, the risk of ARIA across genotypes and implications of genetic testing results should be discussed with patients. (5.1)

Consider the benefit for the treatment of Alzheimer's disease and risk of ARIA when deciding to treat with KISUNLA. (5.1, 14)

#### ----- RECENT MAJOR CHANGES -----

Boxed Warning	07/2025
Dosage and Administration (2.2, 2.3, 2.4, 2.5)	07/2025
Warnings and Precautions (5.1, 5.3)	07/2025

#### ----- INDICATIONS AND USAGE -----

KISUNLA is an amyloid beta-directed antibody indicated for the treatment of Alzheimer's disease. Treatment with KISUNLA should be initiated in patients with mild cognitive impairment or mild dementia stage of disease, the population in which treatment was initiated in the clinical trials. (1)

#### ----- DOSAGE AND ADMINISTRATION -----

- Confirm the presence of amyloid beta pathology prior to initiating treatment. (2.1)
- Administer KISUNLA as an intravenous infusion over approximately 30 minutes every four weeks as follows (2.2):
  - Infusion 1: 350 mg
  - Infusion 2: 700 mg
  - Infusion 3: 1,050 mg
  - Infusion 4 and beyond: 1,400 mg
- Consider stopping dosing with KISUNLA based on reduction of amyloid plaques to minimal levels on amyloid PET imaging. (2.2)
- Obtain a recent baseline brain MRI prior to initiating treatment. (2.3, 5.1)
- Obtain an MRI prior to the 2nd, 3rd, 4th, and 7th infusions. If radiographically observed ARIA occurs, treatment recommendations are based on type, severity, and presence of symptoms. (2.3, 5.1)
- Dilution to a final concentration of 4 mg/mL to 10 mg/mL with 0.9% Sodium Chloride Injection, is required prior to administration. (2.4)

#### ----- DOSAGE FORMS AND STRENGTHS -----

Injection: 350 mg/20 mL (17.5 mg/mL) in a single-dose vial. (3)

-----**CONTRAINDICATIONS**-----

KISUNLA is contraindicated in patients with known serious hypersensitivity to donanemab-azbt or to any of the excipients. (4, 5.2)

-----**WARNINGS AND PRECAUTIONS**-----

- Amyloid Related Imaging Abnormalities (ARIA): Enhanced clinical vigilance for ARIA is recommended during the first 24 weeks of treatment with KISUNLA. Risk of ARIA, including symptomatic ARIA, was increased in apolipoprotein E ε4 (ApoE ε4) homozygotes compared to heterozygotes and noncarriers. The risk of ARIA-E and ARIA-H is increased in KISUNLA-treated patients with pretreatment microhemorrhages and/or superficial siderosis. If a patient experiences symptoms suggestive of ARIA, clinical evaluation should be performed, including MRI scanning if indicated. (2.3, 5.1)
- Infusion-Related Reactions: The infusion rate may be reduced, or the infusion may be discontinued, and appropriate therapy initiated as clinically indicated. Consider pre-treatment with antihistamines, acetaminophen, or corticosteroids prior to subsequent dosing. (5.3)

-----**ADVERSE REACTIONS**-----

Most common adverse reactions (at least 10% and higher incidence compared to placebo): ARIA-E, ARIA-H microhemorrhage, ARIA-H superficial siderosis, and headache. (6.1)

**To report SUSPECTED ADVERSE REACTIONS, contact Eli Lilly and Company at 1-800-LillyRx (1-800-545-5979) or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).**

**See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.**

**Revised: 7/2025**

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**FULL PRESCRIBING INFORMATION**

## **WARNING: AMYLOID RELATED IMAGING ABNORMALITIES**

Monoclonal antibodies directed against aggregated forms of beta amyloid, including KISUNLA, can cause amyloid related imaging abnormalities (ARIA), characterized as ARIA with edema (ARIA-E) and ARIA with hemosiderin deposition (ARIA-H). Incidence and timing of ARIA vary among treatments. ARIA usually occurs early in treatment and is usually asymptomatic, although serious and life-threatening events can occur. ARIA can be fatal. Serious intracerebral hemorrhages >1 cm, some of which have been fatal, have been observed in patients treated with this class of medications. Because ARIA-E can cause focal neurologic deficits that can mimic an ischemic stroke, treating clinicians should consider whether such symptoms could be due to ARIA-E before giving thrombolytic therapy in a patient being treated with KISUNLA [see *Warnings and Precautions (5.1)*, *Adverse Reactions (6.1)*].

### **ApoE $\epsilon$ 4 Homozygotes**

Patients who are apolipoprotein E  $\epsilon$ 4 (ApoE  $\epsilon$ 4) homozygotes (approximately 15% of Alzheimer's disease patients) treated with this class of medications, including KISUNLA, have a higher incidence of ARIA, including symptomatic, serious, and severe radiographic ARIA, compared to heterozygotes and noncarriers [see *Warnings and Precautions (5.1)*]. Testing for ApoE  $\epsilon$ 4 status should be performed prior to initiation of treatment to inform the risk of developing ARIA. Prior to testing, the risk of ARIA across genotypes and the implications of genetic testing results should be discussed with patients. Prescribers should inform patients that if genotype testing is not performed, they can still be treated with KISUNLA; however, it cannot be determined if they are ApoE  $\epsilon$ 4 homozygotes and at higher risk for ARIA [see *Warnings and Precautions (5.1)*].

Consider the benefit of KISUNLA for the treatment of Alzheimer's disease and potential risk of serious adverse events associated with ARIA when deciding to initiate treatment with KISUNLA [see *Warnings and Precautions (5.1)* and *Clinical Studies (14)*].

## **1 INDICATIONS AND USAGE**

KISUNLA™ is indicated for the treatment of Alzheimer's disease. Treatment with KISUNLA should be initiated in patients with mild cognitive impairment or mild dementia stage of disease, the population in which treatment was initiated in the clinical trials.

## **2 DOSAGE AND ADMINISTRATION**

### **2.1 Patient Selection**

Confirm the presence of amyloid beta pathology prior to initiating treatment [see *Clinical Pharmacology (12.1)*].

## 2.2 Dosing Instructions

Administer KISUNLA every four weeks as an intravenous infusion over approximately 30 minutes with the recommended dosage and dosing schedule described in Table 1. KISUNLA must be diluted prior to administration (see Table 4).

**Table 1: Recommended Dosage\* and Dosing Schedule**

<b>Intravenous Infusion (every 4 weeks)</b>	<b>KISUNLA Dosage (administered over approximately 30 minutes)</b>
Infusion 1	350 mg
Infusion 2	700 mg
Infusion 3	1,050 mg
Infusion 4 and beyond	1,400 mg

\*Dosing Regimen 2 [see *Warnings and Precautions (5.1) and Clinical Studies (14)*]

Consider stopping dosing with KISUNLA based on reduction of amyloid plaques to minimal levels on amyloid PET imaging. In Study 1 and Study 2, dosing was stopped based on a reduction of amyloid levels below predefined thresholds on PET imaging [see *Clinical Studies (14)*].

If an infusion is missed, resume administration every 4 weeks at the same dose as soon as possible.

## 2.3 Monitoring and Dosing Interruption for Amyloid Related Imaging Abnormalities

KISUNLA can cause amyloid related imaging abnormalities -edema (ARIA-E) and -hemosiderin deposition (ARIA-H) [see *Warnings and Precautions (5.1) and Adverse Reactions (6.1)*].

### Monitoring for ARIA

Obtain a recent baseline brain magnetic resonance imaging (MRI) prior to initiating treatment with KISUNLA. Obtain an MRI prior to the 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup>, and 7<sup>th</sup> infusions. If a patient experiences symptoms suggestive of ARIA, clinical evaluation should be performed, including an MRI if indicated.

### Recommendations for Dosing Interruptions in Patients with ARIA

#### *ARIA-E*

The recommendations for dosing interruptions for patients with ARIA-E are provided in Table 2.

**Table 2: Dosing Recommendations for Patients With ARIA-E<sup>c</sup>**

<b>Clinical Symptom Severity<sup>a</sup></b>	<b>ARIA-E Severity on MRI</b>		
	<b>Mild</b>	<b>Moderate</b>	<b>Severe</b>
<b>Asymptomatic</b>	May continue dosing at current dose and schedule	Suspend dosing <sup>b</sup>	Suspend dosing <sup>b</sup>

<b>Mild</b>	May continue dosing based on clinical judgment	Suspend dosing <sup>b</sup>	
<b>Moderate or Severe</b>	Suspend dosing <sup>b</sup>		

<sup>a</sup> Mild: discomfort noticed, but no disruption of normal daily activity.

Moderate: discomfort sufficient to reduce or affect normal daily activity.

Severe: incapacitating, with inability to work or to perform normal daily activity.

<sup>b</sup> Suspend until MRI demonstrates radiographic resolution and symptoms, if present, resolve; consider a follow-up MRI to assess for resolution 2 to 4 months after initial identification.

Resumption of dosing should be guided by clinical judgment.

<sup>c</sup> See Table 5 for MRI radiographic severity [*Warning and Precautions (5.1)*].

## ARIA-H

The recommendations for dosing interruptions for patients with ARIA-H are provided in Table 3.

**Table 3: Dosing Recommendations for Patients With ARIA-H<sup>c</sup>**

Clinical Symptom Severity	ARIA-H Severity on MRI		
	Mild	Moderate	Severe
<b>Asymptomatic</b>	May continue dosing at current dose and schedule	Suspend dosing <sup>a</sup>	Suspend dosing <sup>b</sup>
<b>Symptomatic</b>	Suspend dosing <sup>a</sup>	Suspend dosing <sup>a</sup>	

<sup>a</sup> Suspend until MRI demonstrates radiographic stabilization and symptoms, if present, resolve; resumption of dosing should be guided by clinical judgment; consider a follow-up MRI to assess for stabilization 2 to 4 months after initial identification.

<sup>b</sup> Suspend until MRI demonstrates radiographic stabilization and symptoms, if present, resolve. Use clinical judgment when considering whether to continue treatment or permanently discontinue KISUNLA.

<sup>c</sup> See Table 5 for MRI radiographic severity [*Warning and Precautions (5.1)*].

In patients who develop intracerebral hemorrhage greater than 1 cm in diameter during treatment with KISUNLA, suspend dosing until MRI demonstrates radiographic stabilization and symptoms, if present, resolve. Use clinical judgment when considering whether to continue treatment or permanently discontinue KISUNLA after radiographic stabilization and resolution of symptoms.

## 2.4 Dilution Instructions

- Prior to administration, KISUNLA must be diluted with 0.9% sodium chloride injection (see Table 4).
- Use aseptic technique when preparing the diluted KISUNLA solution for intravenous infusion.
- Allow KISUNLA to equilibrate to room temperature before preparation.
- Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit. KISUNLA solution is clear to opalescent, colorless to slightly yellow to slightly brown. Do not use if particulate matter or discolorations are present.
- Withdraw required volume of KISUNLA and mix with 0.9% sodium chloride injection, to the recommended total volume for a final concentration of 4 mg/mL to 10 mg/mL

(see Table 4). Use only 0.9% sodium chloride injection for dilution.

**Table 4: Preparation of KISUNLA**

KISUNLA Dose (mg)	KISUNLA Volume (mL)	Volume of 0.9% Sodium Chloride Injection Diluent (mL)	Final Volume of Diluted Solution to be Infused (mL)	Final Concentration of Diluted Solution (mg/mL) <sup>a</sup>
350 mg	20 mL	15 mL to 67.5 mL	35 mL to 87.5 mL	350 mg/87.5 mL (4 mg/mL) to 350 mg/35 mL (10 mg/mL)
700 mg	40 mL <sup>b</sup>	30 mL to 135 mL	70 mL to 175 mL	700 mg/175 mL (4 mg/mL) to 700 mg/70 mL (10 mg/mL)
1,050 mg	60 mL <sup>c</sup>	45 mL to 202.5 mL	105 mL to 262.5 mL	1,050 mg/262.5 mL (4 mg/mL) to 1,050 mg/105 mL (10 mg/mL)
1,400 mg	80 mL <sup>d</sup>	60 mL to 270 mL	140 mL to 350 mL	1,400 mg/350 mL (4 mg/mL) to 1,400 mg/140 mL (10 mg/mL)

<sup>a</sup> final concentration of 4 mg/mL to 10 mg/mL

<sup>b</sup> 2 vials of KISUNLA

<sup>c</sup> 3 vials of KISUNLA

<sup>d</sup> 4 vials of KISUNLA

- Each vial is for one-time use only. Discard any unused portion left in the vial.
- Gently invert the diluted KISUNLA solution to mix completely. Do not shake.
- After dilution, immediate use is recommended [see *Description (11)*]. If the diluted KISUNLA solution is not administered immediately, store refrigerated at 2°C to 8°C (36°F to 46°F) for up to 72 hours or at room temperature (20°C to 25°C [68°F to 77°F]) for up to 12 hours.
- Do not freeze the diluted KISUNLA solution.
- Storage times include the duration of infusion.

### 2.5 Administration Instructions

- Visually inspect the diluted KISUNLA solution for particles or discoloration prior to administration. Do not use if it is discolored, or opaque or foreign particles are seen.
- Prior to infusion, if the diluted solution has been stored under refrigeration, allow the diluted KISUNLA solution to warm to room temperature.
- Administer the entire diluted solution intravenously over approximately 30 minutes.
- Flush the line only with 0.9% sodium chloride injection at the end of the infusion per access specific line maintenance protocol.
- Observe the patient post-infusion for a minimum of 30 minutes, and consider longer periods of observation if clinically indicated, to evaluate for infusion reactions and hypersensitivity reactions. The infusion rate may be reduced, or the infusion may be discontinued, and appropriate therapy administered as clinically indicated. Consider pre-medication at subsequent dosing with antihistamines, non-steroidal anti-inflammatory drugs, or corticosteroids [see *Warnings and Precautions (5.2)*].

## 3 DOSAGE FORMS AND STRENGTHS

Injection: 350 mg/20 mL (17.5 mg/mL) clear to opalescent, colorless to slightly yellow to

slightly brown solution in a single-dose vial.

## 4 CONTRAINDICATIONS

KISUNLA is contraindicated in patients with known serious hypersensitivity to donanemab-azbt or to any of the excipients. Reactions have included anaphylaxis [see *Warnings and Precautions (5.2)*].

## 5 WARNINGS AND PRECAUTIONS

### 5.1 Amyloid Related Imaging Abnormalities

Monoclonal antibodies directed against aggregated forms of beta amyloid, including KISUNLA, can cause amyloid related imaging abnormalities (ARIA), characterized as ARIA with edema (ARIA-E), which can be observed on MRI as brain edema or sulcal effusions, and ARIA with hemosiderin deposition (ARIA-H), which includes microhemorrhage and superficial siderosis. ARIA can occur spontaneously in patients with Alzheimer's disease, particularly in patients with MRI findings suggestive of cerebral amyloid angiopathy, such as pretreatment microhemorrhage or superficial siderosis. ARIA-H associated with monoclonal antibodies directed against aggregated forms of beta amyloid generally occurs in association with an occurrence of ARIA-E. ARIA-H of any cause and ARIA-E can occur together.

ARIA usually occurs early in treatment and is usually asymptomatic, although serious and life-threatening events, including seizure and status epilepticus, can occur. ARIA can be fatal. When present, reported symptoms associated with ARIA may include, but are not limited to, headache, confusion, visual changes, dizziness, nausea, and gait difficulty. Focal neurologic deficits may also occur. Symptoms associated with ARIA usually resolve over time. In addition to ARIA, intracerebral hemorrhages greater than 1 cm in diameter have occurred in patients treated with KISUNLA.

Consider the benefit of KISUNLA for the treatment of Alzheimer's disease and potential risk of serious adverse events associated with ARIA when deciding to initiate treatment with KISUNLA.

#### Study 1 and Study 2 Overview [see *Clinical Studies (14)*]

In Study 1, safety was assessed in patients who received KISUNLA Dosing Regimen 1 (n = 853) compared to those who received placebo (n = 874). In Study 2, the effect of different dosing regimens of KISUNLA on ARIA was assessed, including in patients who received KISUNLA Dosing Regimen 2 (n=212), which is the recommended dosage and described below.

#### Incidence of ARIA

A lower incidence of ARIA was observed with Dosing Regimen 2 as compared to Dosing Regimen 1. Therefore, Dosing Regimen 2 is the recommended dosage for KISUNLA.

In Study 1, symptomatic ARIA-E occurred in 6% of patients through 18 months of treatment with KISUNLA [see *Adverse Reactions (6.1)*]. Clinical symptoms associated with ARIA-E resolved in approximately 85% of those patients. Including asymptomatic radiographic events, ARIA, ARIA-E, and ARIA-H were observed in 36%, 24%, and 31% of patients treated with KISUNLA, respectively, compared to 14%, 2%, and 13% of patients

on placebo, respectively. There was no increase in isolated ARIA-H (i.e., ARIA-H in patients who did not also experience ARIA-E) for KISUNLA compared to placebo.

In Study 2, symptomatic ARIA-E occurred in 3% of patients and symptomatic ARIA-H occurred in less than 1% of patients through 12 months of treatment with KISUNLA [see Adverse Reactions (6.1)]. Clinical symptoms associated with ARIA-E resolved in approximately 67% of patients at 12 months. Including asymptomatic radiographic events, ARIA, ARIA-E, and ARIA-H were observed in 29%, 16%, and 25% of patients treated with KISUNLA.

### Incidence of Intracerebral Hemorrhage

Intracerebral hemorrhage greater than 1 cm in diameter was reported in 0.5% of patients treated with KISUNLA compared to 0.2% of patients on placebo in Study 1, and in 1% of patients treated with KISUNLA in Study 2. Fatal events of intracerebral hemorrhage in patients taking KISUNLA have been observed.

### Risk Factors for ARIA and Intracerebral Hemorrhage

#### *ApoE ε4 Carrier Status*

The risk of ARIA, including symptomatic and serious ARIA, is increased in apolipoprotein E ε4 (ApoE ε4) homozygotes, which include approximately 15% of Alzheimer's disease patients.

In Study 1, of patients in the KISUNLA arm (n=850), 17% were ApoE ε4 homozygotes, 53% were heterozygotes, and 30% were noncarriers. The incidence of ARIA through 18 months was higher in ApoE ε4 homozygotes (55% on KISUNLA vs. 22% on placebo) than in heterozygotes (36% on KISUNLA vs. 13% on placebo) and noncarriers (25% on KISUNLA vs. 12% on placebo). Among patients treated with KISUNLA, symptomatic ARIA-E occurred in 8% of ApoE ε4 homozygotes compared with 7% of heterozygotes and 4% of noncarriers. Serious events of ARIA occurred in 3% of ApoE ε4 homozygotes, 2% of heterozygotes, and 1% of noncarriers.

In Study 2, of patients treated with KISUNLA Dosing Regimen 2 (n=211), 10% were ApoE ε4 homozygotes, 55% were heterozygotes, and 36% were noncarriers. Symptomatic ARIA-E occurred in 0% of ApoE ε4 homozygotes compared with 4% of heterozygotes and 3% of noncarriers. The small number of events and limited exposure in the ApoE ε4 subgroups limit definitive conclusions about the risk of ARIA-E.

The recommendations for management of ARIA do not differ based on ApoE ε4 carrier status [see Dosage and Administration (2.3)]. Testing for ApoE ε4 status should be performed prior to initiation of treatment to inform the risk of developing ARIA. Prior to testing, prescribers should discuss with patients the risk of ARIA across genotypes and the implications of genetic testing results. Prescribers should inform patients that if genotype testing is not performed, they can still be treated with KISUNLA; however, it cannot be determined if they are ApoE ε4 homozygotes and at a higher risk for ARIA. An FDA-authorized test for detection of ApoE ε4 alleles to identify patients at risk of ARIA if treated with KISUNLA is not currently available. Currently available tests used to identify ApoE ε4 alleles may vary in accuracy and design.

#### *Radiographic Findings of Cerebral Amyloid Angiopathy (CAA)*

Neuroimaging findings that may indicate CAA include evidence of prior intracerebral hemorrhage, cerebral microhemorrhage, and cortical superficial siderosis. CAA has an

increased risk for intracerebral hemorrhage. The presence of an ApoE ε4 allele is also associated with cerebral amyloid angiopathy.

In Study 1, the baseline presence of at least 2 microhemorrhages or the presence of at least 1 area of superficial siderosis on MRI, which may be suggestive of CAA, were identified as risk factors for ARIA. Patients were excluded from enrollment in Study 1 for findings on neuroimaging of prior intracerebral hemorrhage greater than 1 cm in diameter, more than 4 microhemorrhages, more than 1 area of superficial siderosis, severe white matter disease, and vasogenic edema.

#### *Concomitant Antithrombotic or Thrombolytic Medication*

In Study 1, baseline use of antithrombotic medication (aspirin, other antiplatelets, or anticoagulants) was allowed. The majority of exposures to antithrombotic medications were to aspirin. The incidence of ARIA-H was 30% (106/349) in patients taking KISUNLA with a concomitant antithrombotic medication within 30 days compared to 29% (148/504) who did not receive an antithrombotic within 30 days of an ARIA-H event. The incidence of intracerebral hemorrhage greater than 1 cm in diameter was 0.6% (2/349 patients) in patients taking KISUNLA with a concomitant antithrombotic medication compared to 0.4% (2/504) in those who did not receive an antithrombotic. The number of events and the limited exposure to non-aspirin antithrombotic medications limit definitive conclusions about the risk of ARIA or intracerebral hemorrhage in patients taking antithrombotic medications.

One fatal intracerebral hemorrhage occurred in a patient taking KISUNLA in the setting of focal neurologic symptoms of ARIA and the use of a thrombolytic agent in Study 1, and one fatal intracerebral hemorrhage occurred in the setting of ARIA and the use of a thrombolytic agent in Study 2. Additional caution should be exercised when considering the administration of antithrombotics or a thrombolytic agent (e.g., tissue plasminogen activator) to a patient already being treated with KISUNLA. Because ARIA-E can cause focal neurologic deficits that can mimic an ischemic stroke, treating clinicians should consider whether such symptoms could be due to ARIA-E before giving thrombolytic therapy in a patient being treated with KISUNLA.

Caution should be exercised when considering the use of KISUNLA in patients with factors that indicate an increased risk for intracerebral hemorrhage and in particular for patients who need to be on anticoagulant therapy or patients with findings on MRI that are suggestive of cerebral amyloid angiopathy.

#### Radiographic Severity

The radiographic severity of ARIA associated with KISUNLA was classified by the criteria shown in Table 5.

**Table 5: ARIA MRI Classification Criteria**

ARIA Type	Radiographic Severity		
	Mild	Moderate	Severe
ARIA-E	FLAIR hyperintensity confined to sulcus and/or cortex/subcortex white matter in one	FLAIR hyperintensity 5 to 10 cm in single greatest dimension, or more than 1 site of involvement, each	FLAIR hyperintensity >10 cm with associated gyral swelling and sulcal effacement. One or

	location <5 cm.	measuring <10 cm.	more separate/independent sites of involvement may be noted.
ARIA-H microhemorrhage	Less than or equal to 4 new incident microhemorrhages	5 to 9 new incident microhemorrhages	10 or more new incident microhemorrhages
ARIA-H superficial siderosis	1 new <sup>a</sup> focal area of superficial siderosis	2 new focal areas of superficial siderosis	Greater than 2 new focal areas of superficial siderosis

<sup>a</sup> Includes new or worsening superficial siderosis.

In Study 1, the majority of ARIA-E radiographic events occurred early in treatment (within the first 24 weeks), although ARIA can occur at any time and patients can have more than one episode. Resolution on MRI after the first ARIA-E event occurred in 63% of patients treated with KISUNLA by 12 weeks, 80% by 20 weeks, and 83% overall after detection. Among patients treated with KISUNLA, the rate of severe radiographic ARIA-E was highest in ApoE ε4 homozygotes (n=143) compared to heterozygotes (n=452) or noncarriers (n=255) at rates of 3%, 2%, and 0.4%, respectively. Among patients treated with KISUNLA, the rate of severe radiographic ARIA-H was highest in ApoE ε4 homozygotes (n=143) compared to heterozygotes (n=452) or noncarriers (n=255) at rates of 22%, 8%, and 4%, respectively.

Table 6 shows the maximum radiographic severity for ARIA-E, ARIA-H microhemorrhage, and ARIA-H superficial siderosis in Study 1 and Study 2.

**Table 6: Maximum Radiographic Severity in Patients Treated with KISUNLA in Study 1 Study 2**

	Study 1 Dosing Regimen 1 N=853 %			Study 2 Dosing Regimen 2 N=212 %		
	Mild	Moderate	Severe	Mild	Moderate	Severe
ARIA-E	7	15	2	6	9	0
ARIA-H microhemorrhage	17	4	5	17	3	2
ARIA-H superficial siderosis	6	4	5	4	3	1

\*Administered as Dosing Regimen 2 over 12 months of treatment

### Monitoring and Dose Management Guidelines

Recommendations for dosing in patients with ARIA-E depend on clinical symptoms and radiographic severity [see *Dosage and Administration (2.3)*]. Recommendations for dosing in patients with ARIA-H depend on the type of ARIA-H and radiographic severity [see *Dosage and Administration (2.3)*]. Use clinical judgment in considering whether to continue dosing in patients with recurrent ARIA-E.

Baseline brain MRI and periodic monitoring with MRI are recommended [see *Dosage and*

*Administration (2.3)*]. Enhanced clinical vigilance for ARIA is recommended during the first 24 weeks of treatment with KISUNLA. If a patient experiences symptoms suggestive of ARIA, clinical evaluation should be performed, including MRI if indicated. If ARIA is observed on MRI, careful clinical evaluation should be performed prior to continuing treatment.

There is limited experience in patients who continued dosing through asymptomatic but radiographically mild to moderate ARIA-E. There are limited data for dosing patients who have experienced recurrent episodes of ARIA-E.

Providers should encourage patients to participate in real world data collection (e.g., registries) to help further the understanding of Alzheimer's disease and the impact of Alzheimer's disease treatments. Providers and patients can contact 1-800-LillyRx (1-800-545-5979) for a list of currently enrolling programs.

## **5.2 Hypersensitivity Reactions**

Hypersensitivity reactions, including anaphylaxis and angioedema, have occurred in patients who were treated with KISUNLA [*see Adverse Reactions (6.1)*]. Promptly discontinue the infusion upon the first observation of any signs or symptoms consistent with a hypersensitivity reaction and initiate appropriate therapy. KISUNLA is contraindicated in patients with a history of serious hypersensitivity to donanemab-azbt or to any of the excipients of KISUNLA.

## **5.3 Infusion-Related Reactions**

In Study 1, infusion-related reactions were observed in 9% of patients treated with KISUNLA, the majority (70%) of which occurred within the first 4 infusions, compared to 0.5% of patients on placebo. Infusion-related reactions were mostly mild (57%) or moderate (39%) in severity. Infusion-related reactions resulted in discontinuations in 4% of patients treated with KISUNLA.

In Study 2, infusion-related reactions associated with KISUNLA occurred in 16% of patients; the majority (88%) occurred within the first 4 infusions. Infusion-related reactions were mostly mild (47%) or moderate (50%) in severity. Infusion-related reactions resulted in discontinuations in 2.8% of patients treated with KISUNLA.

Most infusion-related reactions associated with KISUNLA occurred during the infusion or within 30 minutes after completion of the infusion, however some have occurred hours after an infusion. Signs and symptoms of infusion-related reactions include chills, erythema, nausea/vomiting, flushing, difficulty breathing/dyspnea, sweating, elevated blood pressure, headache, chest pain, and low blood pressure.

In the event of an infusion-related reaction, the infusion rate may be reduced, or the infusion may be discontinued, and appropriate therapy initiated as clinically indicated. Consider pre-treatment with antihistamines, acetaminophen, or corticosteroids prior to subsequent dosing.

## **6 ADVERSE REACTIONS**

The following clinically significant adverse reactions are described elsewhere in the labeling:

- Amyloid Related Imaging Abnormalities [*see Warnings and Precautions (5.1)*]

- Hypersensitivity Reactions [see Warnings and Precautions (5.2)]
- Infusion-Related Reactions [see Warnings and Precautions (5.3)]

## 6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

### Dosing Regimen and Safety

A lower incidence of ARIA occurred with the dosing regimen administered in Study 2 (350 mg/700 mg/1,050 mg/1,400 mg; Dosing Regimen 2) as compared to the regimen administered in Study 1 (700 mg/700 mg/700 mg/1,400 mg; Dosing Regimen 1); therefore, Dosing Regimen 2 is recommended for administration of KISUNLA [see Dosage and Administration (2.2), Warnings and Precautions (5.1), Clinical Pharmacology (12.2), Clinical Studies (14)].

The safety of KISUNLA has been evaluated in 3727 patients with Alzheimer's disease who received at least one dose of KISUNLA intravenously. In the other clinical studies of KISUNLA, 1912 patients with Alzheimer's disease received KISUNLA once monthly for at least 6 months, 1057 patients for at least 12 months, and 432 patients for at least 18 months, at the Dosing Regimen 1.

### Study 1

In Study 1 (NCT04437511), a total of 853 patients with Alzheimer's disease received at least one dose of KISUNLA; patients were randomized to receive KISUNLA Dosing Regimen 1 or placebo.

Thirteen percent of patients treated with KISUNLA compared to 4% of patients on placebo stopped study treatment because of an adverse reaction. The most common adverse reaction leading to discontinuation of KISUNLA was infusion-related reaction (4% of patients treated with KISUNLA compared to no patient on placebo).

Table 7 shows adverse reactions that were reported in at least 5% of patients treated with KISUNLA and at least 2% more frequently than in patients on placebo in Study 1.

**Table 7: Adverse Reactions Reported in at Least 5% of Patients Treated With KISUNLA and at Least 2% Higher Than Placebo in Study 1**

<b>Adverse Reaction</b>	<b>KISUNLA<sup>a</sup> N = 853 %</b>	<b>Placebo N = 874 %</b>
ARIA-H microhemorrhage <sup>b</sup>	25	11
ARIA-E	24	2
ARIA-H superficial siderosis <sup>b</sup>	15	3
Headache	13	10
Infusion-related reaction	9	0.5

<sup>a</sup> Administered as a different titration regimen (700 mg/700 mg/700 mg/1,400 mg) than the currently recommended dosing regimen (350 mg/700 mg/1,050 mg/1,400 mg)

<sup>b</sup> As assessed by MRI. A participant could have both microhemorrhage and superficial siderosis.

## Study 2

In Study 2 (NCT05738486), a total of 842 patients received at least one dose of KISUNLA; 212 patients were randomized to receive KISUNLA Dosing Regimen 2. In Study 2, compared to the rates reported with Dosing Regimen 1, higher rates of hypersensitivity reactions (8% of patients treated with Dosing Regimen 2) and infusion-related reactions (16% of patients treated with Dosing Regimen 2), and a lower rate of ARIA-E (16% of patients treated with Dosing Regimen 2) were observed [see *Warnings and Precautions (5.1) and Clinical Studies (14)*].

### Less Common Adverse Reactions

#### *Hypersensitivity Reactions [see *Warnings and Precautions (5.2)*]*

Hypersensitivity reactions, including anaphylaxis, occurred in 3% of patients treated with KISUNLA compared to 0.7% of patients on placebo in Study 1 and in 8% of patients treated with KISUNLA Dosing Regimen 2 in Study 2.

#### *Intestinal Obstruction and Intestinal Perforation*

Serious adverse reactions of intestinal obstruction occurred in three patients (0.4%) treated with KISUNLA compared to no patients on placebo in Study 1 and one patient (0.5%) treated with KISUNLA Dosing Regimen 2 in Study 2. Serious adverse reactions of intestinal perforation occurred in two patients (0.2%) treated with KISUNLA compared to one patient (0.1%) on placebo in Study 1.

#### Immunogenicity: Anti-Drug Antibody-Associated Adverse Reactions [see *Warnings and Precautions (5.2) and Clinical Pharmacology (12.6)*]

Infusion-related reactions occurred more frequently in patients treated with KISUNLA who developed anti-drug antibodies (ADAs) compared to patients who did not develop ADAs (Study 1, Dosing Regimen 1: 10% compared to 2%; Study 2, Dosing Regimen 2: 20% compared to 8%).

## **8 USE IN SPECIFIC POPULATIONS**

### **8.1 Pregnancy**

#### Risk Summary

There are no adequate data on KISUNLA use in pregnant women to evaluate for a drug-associated risk of major birth defects, miscarriage, or other adverse maternal or fetal outcomes. No animal studies have been conducted to assess the potential reproductive or developmental toxicity of KISUNLA.

In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2 to 4% and 15 to 20%, respectively. The background risk of major birth defects and miscarriage for the indicated population is unknown.

### **8.2 Lactation**

#### Risk Summary

There are no data on the presence of donanemab-azbt in human milk, the effects on the

breastfed infant, or the effects of the drug on milk production. Published data from other monoclonal antibodies generally indicate low passage of monoclonal antibodies into human milk and limited systemic exposure in the breastfed infant. The effects of this limited exposure are unknown. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for KISUNLA and any potential adverse effects on the breastfed infant from KISUNLA or from the underlying maternal condition.

#### **8.4 Pediatric Use**

Safety and effectiveness in pediatric patients have not been established.

#### **8.5 Geriatric Use**

In Study 1, the age of patients exposed to KISUNLA ranged from 59 to 86 years, with a mean age of 73 years; 90% were 65 years and older, and 41% were 75 years and older. No overall differences in safety or effectiveness of KISUNLA have been observed between patients 65 years of age and older and younger adult patients.

In Study 2, the range of patients exposed to KISUNLA ranged from 59 to 85 years, with mean age of 74 years; 93% were 65 years and older, 55% were 75 years and older. Study 2 did not include a sufficient number of younger adult patients to determine if patients 65 years of age and older respond differently than younger adult patients.

### **11 DESCRIPTION**

Donanemab-azbt is a humanized immunoglobulin gamma 1 (IgG1) monoclonal antibody directed against insoluble N-truncated pyroglutamate amyloid beta, and is expressed in a Chinese hamster ovary cell line. Donanemab-azbt has an approximate molecular weight of 145 kDa.

KISUNLA (donanemab-azbt) injection is a sterile, preservative-free, clear to opalescent, colorless to slightly yellow to slightly brown solution for intravenous infusion after dilution. KISUNLA is supplied in single-dose vials available in a concentration of 350 mg/20 mL (17.5 mg/mL).

Each mL of solution contains 17.5 mg donanemab-azbt, anhydrous citric acid (0.32 mg), polysorbate 80 (0.20 mg), sodium citrate (2.15 mg), sucrose (80 mg), and Water for Injection, USP, at a pH of 5.5 to 6.5.

### **12 CLINICAL PHARMACOLOGY**

#### **12.1 Mechanism of Action**

Donanemab-azbt is a humanized immunoglobulin gamma 1 (IgG1) monoclonal antibody directed against insoluble N-truncated pyroglutamate amyloid beta. The accumulation of amyloid beta plaques in the brain is a defining pathophysiological feature of Alzheimer's disease. Donanemab-azbt reduces amyloid beta plaques, as evaluated in Study 1 [see *Clinical Studies (14)*].

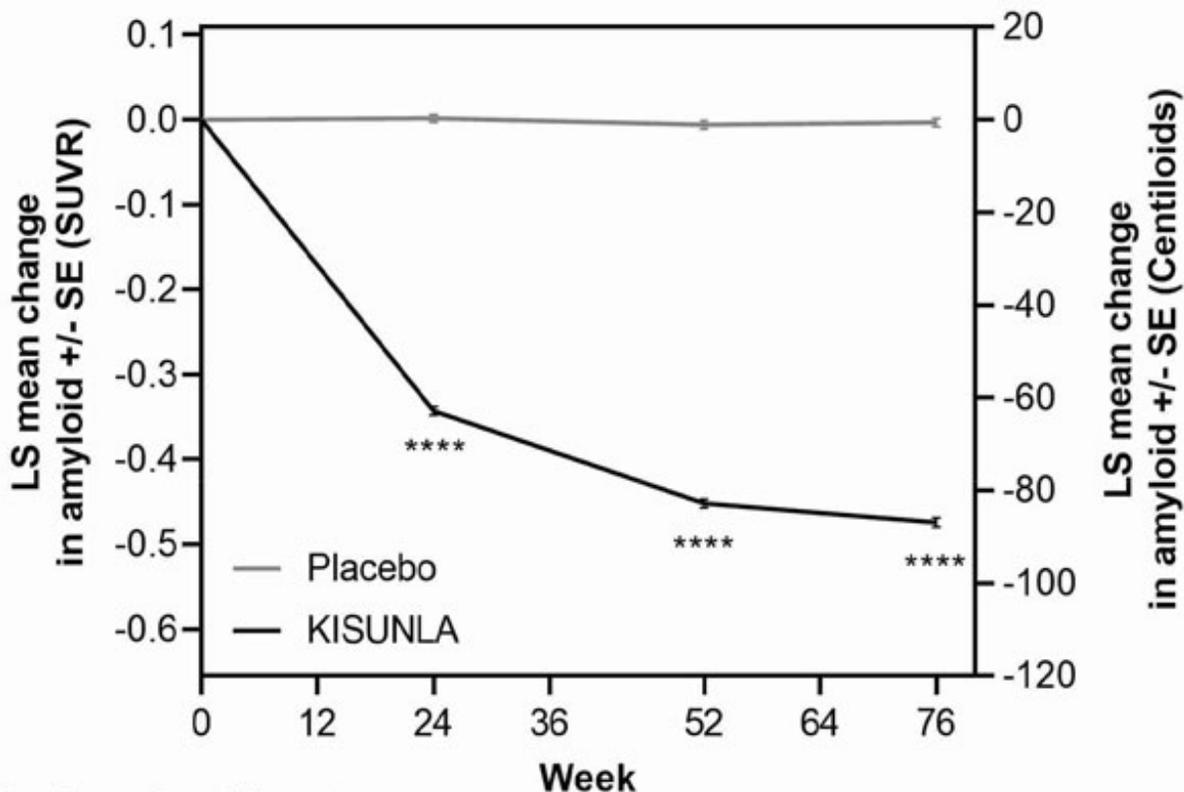
#### **12.2 Pharmacodynamics**

## Effect of KISUNLA on Amyloid Beta Pathology

The effect of KISUNLA on amyloid beta plaque levels in the brain was evaluated using amyloid Positron Emission Tomography (PET) imaging ( $^{18}\text{F}$ -florbetapir tracer). The PET signal was quantified using the Standard Uptake Value Ratio (SUVR) method to estimate brain levels of amyloid beta plaque in composites of brain areas expected to be widely affected by Alzheimer's disease pathology (precuneus, frontal, anterior cingulate, posterior cingulate, parietal, and temporal cortices), compared to a brain region expected to be spared of such pathology (cerebellum). Results of amyloid PET were also expressed on the Centiloid scale.

In Study 1 [see *Clinical Studies (14)*], KISUNLA administered at Dosing Regimen 1 reduced amyloid beta plaque levels in the brain in a time-dependent manner, starting at Week 24, and continuing through Week 76 ( $p < 0.0001$ ), compared to placebo (see Figure 1 and Table 7). In Study 2, Dosing Regimen 2 resulted in similar amyloid plaque reduction compared to Dosing Regimen 1 at Week 24. In clinical pharmacology studies, KISUNLA demonstrated a dose- and time-dependent reduction in amyloid beta plaque, with the decrease observed starting at Week 12.

**Figure 1: Reduction in Brain Amyloid Beta Plaque (Change from Baseline) on Amyloid Beta PET Imaging Composite (SUVR and Centiloids) in Study 1<sup>a</sup>**



Number of participants

Placebo	754	740	680	642
KISUNLA	712	702	627	571

<sup>a</sup> \*\*\*\* $p < 0.0001$ .

During an off-treatment period, amyloid PET values began to increase with a median rate of 2.80 Centiloids/year.

### Effect of KISUNLA on Tau Pathophysiology

A reduction in plasma p-tau217 was observed with KISUNLA compared to placebo in Study 1 (see Table 8).

**Table 8: Biomarker Results of KISUNLA in Study 1 (AACI)**

<b>Biomarker Endpoint at Week 76</b>	<b>KISUNLA</b>	<b>Placebo</b>
<b>Amyloid Beta PET SUVR</b>	<b>N = 712</b>	<b>N = 754</b>
Mean baseline	1.53	1.52
Adjusted mean change from baseline	-0.47	-0.00
Difference from placebo	-0.47, p<0.0001	
<b>Amyloid Beta PET Centiloid</b>	<b>N = 765</b>	<b>N = 812</b>
Mean baseline	104.0	101.8
Adjusted mean change from baseline	-87.0	-0.7
Difference from placebo	-86.4, p<0.0001	
<b>Plasma p-tau217 (log10 transformed)<sup>a</sup></b>	<b>N = 758</b>	<b>N = 786</b>
Mean baseline	0.67	0.66
Adjusted mean change from baseline	-0.19	0.03
Difference from placebo	-0.22, p<0.0001	

N is the number of patients with baseline value.

<sup>a</sup> Results should be interpreted with caution due to the uncertainties in bioanalysis.

### Exposure-Response Relationships

Model based exposure-response analyses for Study 1 demonstrated that exposures to donanemab-azbt were associated with a reduction in clinical decline on iADRS and CDR-SB. An association between reduction in amyloid beta plaque from baseline and clinical decline on iADRS and CDR-SB was also observed.

### **12.3 Pharmacokinetics**

The pharmacokinetics (PK) of KISUNLA were characterized using a population PK analysis with concentration data collected from 2131 patients with Alzheimer's disease who received KISUNLA in single or multiple doses. Accumulation of <1.3-fold occurs with every-4-week dosing. Steady-state exposures, which were similar from Dosing Regimens 1 and 2, are achieved after a single dose. In single doses from 350 to 2800 mg (~2 times the approved recommended dosage of 1,400 mg), and multiple 350 to 1,400 mg doses, exposures ( $C_{max}$  and AUC) increased proportionally.

#### Distribution

The central volume of distribution is 3.36 L.

#### Elimination

KISUNLA is expected to be degraded by proteolytic enzymes in the same manner as endogenous IgG. The mean terminal half-life of donanemab-azbt is approximately

12.1 days. Donanemab-azbt clearance is 0.0255 L/h.

### Specific Populations

Age, sex, or race were not found to affect the pharmacokinetics of donanemab-azbt. While body weight was found to influence both clearance and volume of distribution, the resulting changes were not clinically significant.

#### *Patients with Renal or Hepatic Impairment*

No clinical studies were conducted to evaluate the pharmacokinetics of donanemab-azbt in patients with renal or hepatic impairment. Donanemab-azbt is degraded by proteolytic enzymes and is not expected to undergo renal elimination or metabolism by hepatic enzymes.

## **12.6 Immunogenicity**

The observed incidence of anti-drug antibodies (ADA) is highly dependent on the sensitivity and specificity of the assay. Differences in assay methods preclude meaningful comparisons of the incidence of ADA in the studies described below with the incidence of ADAs in other studies, including those of donanemab-azbt or of other donanemab products.

In up to 18 months of treatment in Study 1 [see *Clinical Studies (14)*], 87% (691/792) of patients receiving KISUNLA Dosing Regimen 1 developed anti-donanemab-azbt antibodies, and of those, 100% had neutralizing antibodies. In up to 12 months of treatment in Study 2, 87% (176/202) of patients receiving KISUNLA Dosing Regimen 2 developed anti-donanemab-azbt antibodies, and of those, 100% had neutralizing antibodies.

Anti-donanemab-azbt antibody formation was associated with a higher incidence of infusion-related reactions compared to placebo [see *Adverse Reactions (6.1)*].

### Anti-Drug Antibody Effects on Pharmacokinetics and Pharmacodynamics

The presence of anti-donanemab-azbt antibodies increased donanemab-azbt clearance. Among patients treated with KISUNLA in the placebo-controlled studies who developed anti-donanemab-azbt antibodies, mean donanemab-azbt serum trough concentrations at various time points were lower compared to patients who had not developed anti-donanemab-azbt antibodies. Patients with high ADA titers showed less reduction in amyloid plaque compared to patients with low ADA titers. However, there was no identified clinically significant effect of anti-donanemab-azbt antibodies on the effectiveness of KISUNLA over the treatment duration of 18 months.

## **13 NONCLINICAL TOXICOLOGY**

### **13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility**

#### Carcinogenesis

Carcinogenicity studies have not been conducted.

#### Mutagenesis

Genotoxicity studies have not been conducted.

## Impairment of Fertility

No studies in animals have been conducted to assess the effects of donanemab-azbt on male or female fertility.

## **14 CLINICAL STUDIES**

The effectiveness of KISUNLA for the treatment of Alzheimer's disease was established by Study 1, which assessed Dosing Regimen 1 (700 mg every 4 weeks for the first 3 doses, and then 1,400 mg every 4 weeks). Study 2 was conducted to assess different titration regimens, including Dosing Regimen 2 (doses every 4 weeks with 350 mg the first infusion, 700 mg the second infusion, 1,050 mg the third infusion, and then 1,400 mg every 4 weeks) that demonstrated comparable pharmacodynamic effects on amyloid plaque reduction with a reduced incidence of ARIA-related events compared to Dosing Regimen 1 [see *Dosage and Administration (2.2)*, *Warnings and Precautions (5.1)*, *Clinical Pharmacology (12.2)*].

### Study 1

The efficacy of KISUNLA was evaluated in a double-blind, placebo-controlled, parallel-group study (Study 1, NCT04437511) in patients with Alzheimer's disease (patients with confirmed presence of amyloid pathology and mild cognitive impairment or mild dementia stage of disease, consistent with Stage 3 and Stage 4 Alzheimer's disease). Patients were enrolled with a Mini-Mental State Examination (MMSE) score of  $\geq 20$  and  $\leq 28$  and had a progressive change in memory function for at least 6 months. Patients were included in the study based on visual assessment of tau PET imaging with flortaucipir and standardized uptake value ratio (SUVR). Patients were enrolled with or without concomitant approved therapies (cholinesterase inhibitors and the N-methyl-D-aspartate antagonist memantine) for Alzheimer's disease. Patients could enroll in an optional, long-term extension.

In Study 1, 1736 patients were randomized 1:1 to receive 700 mg of KISUNLA Dosing Regimen 1 (N = 860) or placebo (N = 876) for a total of up to 72 weeks. The treatment was switched to placebo based on amyloid PET levels measured at Week 24, Week 52, and Week 76. If the amyloid plaque level was  $< 11$  Centiloids on a single PET scan or 11 to  $< 25$  Centiloids on 2 consecutive PET scans, the patient was eligible to be switched to placebo.

Additionally, dose adjustments were allowed for treatment-emergent ARIA or symptoms that then showed ARIA-E or ARIA-H on MRI.

At baseline, mean age was 73 years, with a range of 59 to 86 years. Of the total number of patients randomized, 68% had low/medium tau level and 32% had high tau level; 71% were ApoE  $\epsilon 4$  carriers and 29% were ApoE  $\epsilon 4$  noncarriers. Fifty-seven percent of patients were female, 91% were White, 6% were Asian, 4% were Hispanic or Latino, and 2% were Black or African American.

The primary efficacy endpoint was change in the integrated Alzheimer's Disease Rating Scale (iADRS) score from baseline to 76 weeks. The iADRS is a combination of two scores: the Alzheimer's Disease Assessment Scale-Cognitive subscale (ADAS-Cog<sub>13</sub>) and the Alzheimer's Disease Cooperative Study – instrumental Activities of Daily Living (ADCS-iADL) scale. The total score ranges from 0 to 144, with lower scores reflecting worse cognitive and functional performance. Other efficacy endpoints included Clinical

Dementia Rating Scale - Sum of Boxes (CDR-SB), ADAS-Cog<sub>13</sub>, and ADCS-iADL.

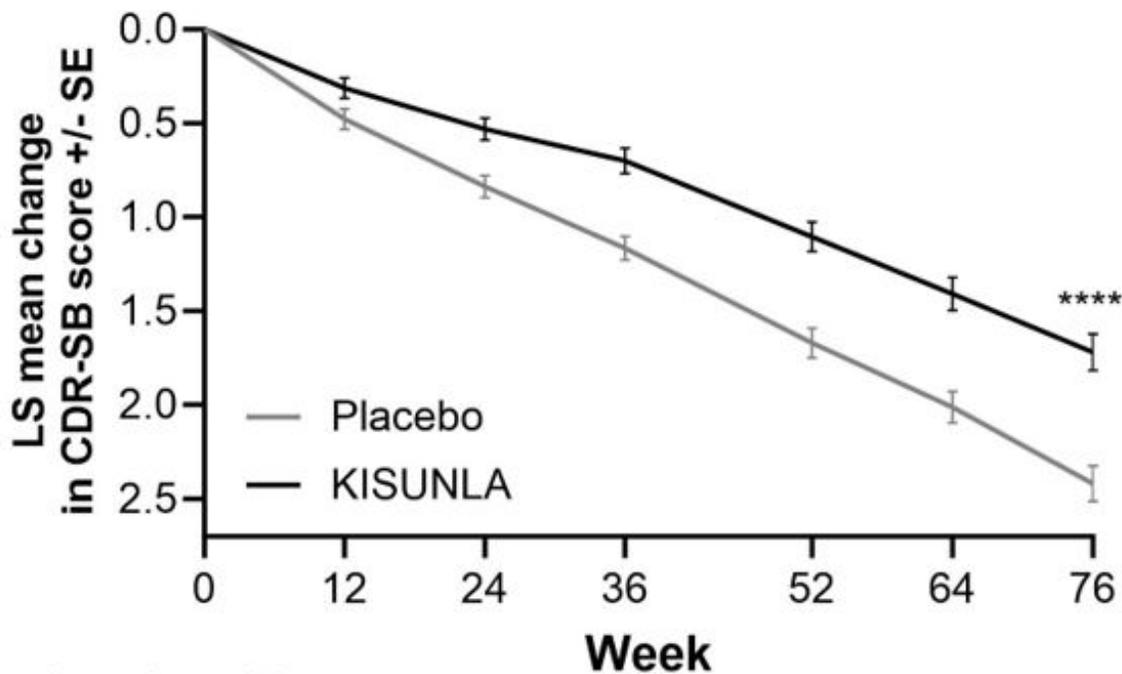
There were two primary analysis populations based on tau PET imaging with flortaucipir: 1) low/medium tau level population (defined by visual assessment and SUVR of  $\geq 1.10$  and  $\leq 1.46$ ), and 2) combined population of low/medium plus high tau (defined by visual assessment and SUVR  $> 1.46$ ) population.

Patients treated with KISUNLA demonstrated a statistically significant reduction in clinical decline on iADRS compared to placebo at Week 76 in the combined population (2.92,  $p < 0.0001$ ) and the low/medium tau population (3.25,  $p < 0.0001$ ).

Patients treated with KISUNLA demonstrated a statistically significant reduction in clinical decline on CDR-SB compared to placebo at Week 76 in the combined population (-0.70,  $p < 0.0001$ ) (see Figure 2 and Table 8). There were also statistically significant differences ( $p < 0.001$ ) between treatment groups as measured by ADAS-Cog<sub>13</sub> and ADCS-iADL at Week 76 (see Table 9).

Dosing was continued or stopped in response to observed effects on amyloid imaging. The percentages of patients eligible for switch to placebo based on amyloid PET levels at Week 24, Week 52, and Week 76 timepoints were 17%, 47%, and 69%, respectively. Amyloid PET values may increase after treatment with donanemab is stopped [see *Clinical Pharmacology (12.2)*]. There is no data beyond the 76-week duration of Study 1 to guide whether additional dosing with KISUNLA may be needed for longer-term clinical benefit.

**Figure 2: CDR-SB Change From Baseline in Combined Population Through 76 Weeks in Study 1<sup>a</sup>**



Number of participants

Placebo	838	825	784	752	713	678	672
KISUNLA	794	774	731	682	650	603	598

a \*\*\*\*p<0.0001 versus placebo.

**Table 9: Efficacy Analysis Results in Combined Population at Week 76<sup>a</sup> in Study 1**

<b>Clinical Endpoints</b>	<b>KISUNLA (N = 860)</b>	<b>Placebo (N = 876)</b>
<b>CDR-SB<sup>b</sup></b>		
Mean baseline	3.92	3.89
Adjusted mean change from baseline	1.72	2.42
Difference from placebo (%) <sup>d</sup>	-0.70 (29%) p<0.0001	--
<b>ADAS-Cog<sub>13</sub><sup>c</sup></b>		
Mean baseline	28.53	29.16
Adjusted mean change from baseline	5.46	6.79
Difference from placebo (%) <sup>d</sup>	-1.33 (20%) p=0.0006	--
<b>ADCS-iADL<sup>c</sup></b>		
Mean baseline	47.96	47.98
Adjusted mean change from baseline	-4.42	-6.13
Difference from placebo (%) <sup>d</sup>	1.70 (28%) p=0.0001	--

<sup>a</sup> Abbreviations: ADAS-Cog<sub>13</sub> = Alzheimer's Disease Assessment Scale - 13-item Cognitive Subscale; ADCS-iADL = Alzheimer's Disease Cooperative Study - instrumental Activities of Daily Living subscale; CDR-SB = Clinical Dementia Rating Scale - Sum of Boxes; NCS2 = natural cubic spline with 2 degrees of freedom; MMRM = mixed model for repeated measures.

<sup>b</sup> Assessed using MMRM analysis.

<sup>c</sup> Assessed using NCS2 analysis.

<sup>d</sup> Percent slowing of decline relative to placebo: difference of adjusted mean change from baseline between treatment groups divided by adjusted mean change from baseline of placebo group at Week 76.

## Study 2

Study 2 (NCT05738486) was a randomized, double-blind study investigating the effect of different KISUNLA dosing regimens on ARIA-E and change from baseline in amyloid in adults with Alzheimer's disease (patients with confirmed amyloid pathology and mild cognitive impairment or mild dementia stage of disease). Inclusion and exclusion criteria were the same as Study 1 except that tau PET was not an inclusion criterion. Patients were randomized to receive Dosing Regimen 1 (N=207), or one of three alternative regimens, including Dosing Regimen 2 (N=212) in a 1:1:1:1 ratio [see *Dosing and Administration (2.2)*]. The treatment period was up to 72 weeks, and treatment stopping criteria based on amyloid PET were the same as Study 1.

Of the 212 patients receiving Dosing Regimen 2, the mean age was 74 years. Fifty-nine percent were female, 91% were White, 6.6% were Black or African American, 5.2% were

Hispanic or Latino, and 1.4% were Asian. Overall, 65% of these patients were ApoE ε4 carriers, with 55% heterozygotes and 10% homozygotes, and 36% were noncarriers.

The primary endpoint of the study was the proportion of patients with any occurrence of ARIA-E. The results showed that patients receiving Dosing Regimen 2 had less incidence of ARIA-E by Week 52 compared with patients receiving Dosing Regimen 1 (see Table 10).

ARIA-E occurred at a higher incidence in ApoE ε4 homozygotes, compared to heterozygotes, with the lowest incidence in noncarriers. The small number of events and limited exposure in the ApoE ε4 subgroups limit definitive conclusions about the risk of ARIA-E.

**Table 10: Cumulative Incidence of ARIA-E and ARIA-H in 52 Weeks, Overall and by ApoE e4 Genotype, in Study 2**

	<b>Dosing Regimen 1 N=207</b>	<b>Dosing Regimen 2 N=212</b>
<b>ARIA-E Overall</b>		
n (incidence, %)	50 (24.9)	33 (16.2)
RD (95% CI)	-	8.7 (0.8, 16.5)
<b>ARIA-H Overall</b>		
n (incidence, %)	56 (28.1)	51 (25.2)
RD (95% CI)	-	2.9 (-5.8, 11.6)
<b>Homozygotes, N</b>	21	21
ARIA-E		
n (incidence <sup>1</sup> , %)	12 (57.1)	5 (24.4)
RD (95% CI)	-	32.7 (4.4, 60.9)
ARIA-H		
n (incidence <sup>1</sup> , %)	10 (47.6)	6 (28.6)
RD (95% CI)	-	19.0 (-9.8, 47.8)
<b>Heterozygotes, N</b>	112	115
ARIA-E		
n (incidence <sup>1</sup> , %)	27 (25.0)	18 (16.4)
RD (95% CI)	-	8.6 (-2.2, 19.3)
ARIA-H		
n (incidence <sup>1</sup> , %)	34 (31.8)	33 (30.8)
RD (95% CI)	-	1.0 (-11.5, 13.5)
<b>ApoE noncarriers, N</b>	72	75
ARIA-E		
n (incidence <sup>1</sup> , %)	11 (15.6)	10 (13.8)
RD (95% CI)	-	1.8 (-9.8, 13.5)
ARIA-H		
n (incidence <sup>1</sup> , %)	12 (17.2)	12 (16.4)
RD (95% CI)	-	0.8 (-11.5, 13.1)

<sup>1</sup> Kaplan-Meier estimates of cumulative incidence

Abbreviations: CI = confidence interval, RD = risk difference

## 16 HOW SUPPLIED/STORAGE AND HANDLING

### 16.1 How Supplied

KISUNLA (donanemab-azbt) injection is a sterile, preservative-free, clear to opalescent, colorless to slightly yellow to slightly brown solution. KISUNLA is supplied in one vial per carton as follows:

350 mg/20 mL (17.5 mg/mL) single-dose vial: NDC 0002-9401-01.

### 16.2 Storage and Handling

#### Unopened Vial

- Store refrigerated at 2°C to 8°C (36°F to 46°F).
- Keep the vial in the outer carton to protect from light.
- Do not freeze or shake.
- If refrigeration is not available, may be stored at room temperature (20°C to 25°C [68°F to 77°F]) for up to 3 days.

#### Diluted Solution

For storage of the diluted infusion solution see *Dosage and Administration (2.4)*.

## 17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Medication Guide).

#### Amyloid Related Imaging Abnormalities

Inform patients that KISUNLA may cause Amyloid Related Imaging Abnormalities or “ARIA”. ARIA most commonly presents as temporary swelling in areas of the brain that usually resolves over time. Some people may also have small spots of bleeding in or on the surface of the brain. Inform patients that most people with swelling in areas of the brain do not experience symptoms, however some people may experience symptoms such as headache, confusion, dizziness, vision changes, nausea, aphasia, weakness, or seizure. Instruct patients to notify their healthcare provider immediately if these symptoms occur. Clinical evaluation should be performed, and an MRI may be considered. Inform patients that serious symptoms of ARIA may occur and that ARIA can be fatal. Inform patients that events of intracerebral hemorrhage greater than 1 cm in diameter have been reported infrequently in patients taking KISUNLA, and that use of antithrombotic or thrombolytic medications while taking KISUNLA may increase the risk of bleeding in the brain. Notify patients that their healthcare provider will perform MRI scans to monitor for ARIA [see *Warnings and Precautions (5.1)*].

Inform patients that although ARIA can occur in any patient treated with KISUNLA, there is an increased risk in patients who are ApoE ε4 homozygotes, and that testing for ApoE ε4 status should be performed prior to initiation of treatment to inform the risk of developing ARIA. Prior to testing, discuss with patients the risk of ARIA across genotypes and the implications of genetic testing results. Inform patients that if testing is not performed, it cannot be determined if they are ApoE ε4 homozygotes and at a higher risk for ARIA.

Inform patients that some symptoms of ARIA can mimic ischemic stroke and that their

healthcare providers may need to perform additional testing to determine how to treat those symptoms in patients taking KISUNLA. Advise patients to carry information that they are being treated with KISUNLA.

### Patient Registry

Providers should encourage patients to participate in real world data collection (e.g., registries) to help further the understanding of Alzheimer's disease and the impact of Alzheimer's disease treatments. Providers and patients can contact 1-800-LillyRx (1-800-545-5979) for a list of currently enrolling programs.

### Hypersensitivity Reactions

Inform patients that KISUNLA may cause hypersensitivity reactions, including anaphylaxis and angioedema, and to contact their healthcare provider immediately if hypersensitivity reactions occur [see *Warnings and Precautions (5.2)*].

### Infusion-Related Reactions

Inform patients that KISUNLA may cause infusion-related reactions, including chills, erythema, nausea, vomiting, difficulty breathing, sweating, headache, chest pain, and high or low blood pressure. Advise patients that symptoms can occur during an infusion or after they leave the infusion center and to contact their healthcare provider if infusion related reactions occur [see *Warnings and Precautions (5.3)*].

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KIS-0003-USPI-20250722

**MEDICATION GUIDE**  
**KISUNLA™ (kih-SUHN-lah)**  
**(donanemab-azbt)**  
**injection, for intravenous use**

**What is the most important information I should know about KISUNLA?**

**KISUNLA can cause serious side effects, including:**

**Amyloid Related Imaging Abnormalities or ARIA. ARIA is a common side effect that does not usually cause any symptoms, but serious symptoms can occur. ARIA can be fatal.** It is most commonly seen as temporary swelling in areas of the brain that usually resolves over time. Some people may also have small spots of bleeding in or on the surface of the brain, and infrequently, larger areas of bleeding in the brain can occur. Most people who develop ARIA do not get symptoms; however, some people may have symptoms such as:

- headache
- dizziness
- nausea
- difficulty walking
- confusion
- vision changes
- seizures

Some people have a genetic risk factor (homozygous apolipoprotein E ε4 gene carriers) that may cause an increased risk for ARIA. Talk to your healthcare provider about testing to see if you have this risk factor.

You may be at a higher risk of developing bleeding in the brain if you take medicines to

reduce blood clots from forming (antithrombotic medicines) while receiving KISUNLA.

Your healthcare provider will do magnetic resonance imaging (MRI) scans before and during your treatment with KISUNLA to check you for ARIA.

You should carry information that you are receiving KISUNLA which can cause ARIA, and that ARIA symptoms can look like stroke symptoms.

**Call your healthcare provider or go to the nearest hospital emergency room right away if you have any of the symptoms listed above.**

There are registries that collect information on treatments for Alzheimer's disease. Your healthcare provider can help you become enrolled in these registries. For more information, go to [www.kisunla.com](http://www.kisunla.com) or call 1-800-LillyRx (1-800-545-5979).

### **What is KISUNLA?**

- KISUNLA is a prescription medicine used to treat people with Alzheimer's disease.

It is not known if KISUNLA is safe and effective in children.

### **Do not receive KISUNLA if you:**

- have serious allergic reactions to donanemab-azbt or any of the ingredients in KISUNLA. See the end of this Medication Guide for a complete list of ingredients in KISUNLA.

### **Before receiving KISUNLA, tell your healthcare provider about all of your medical conditions, including if you:**

- are pregnant or plan to become pregnant. It is not known if KISUNLA will harm your unborn baby. Tell your healthcare provider if you become pregnant during your treatment with KISUNLA.
- are breastfeeding or plan to breastfeed. It is not known if donanemab-azbt (the active ingredient in KISUNLA) passes into your breast milk. Talk to your healthcare provider about the best way to feed your baby while receiving KISUNLA.

**Tell your healthcare provider about all of the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements. Especially tell your healthcare provider if you take medicines to reduce blood clots from forming (antithrombotic medicines, including aspirin).** Ask your healthcare provider for a list of these medications if you are not sure.

Know the medicines you take. Keep a list of them to show your healthcare provider and pharmacist when you get a new medicine.

### **How will I receive KISUNLA?**

- KISUNLA is given by your healthcare provider through a needle placed in your vein (intravenous (IV) infusion) in your arm.
- KISUNLA is given every 4 weeks. Each infusion will last about 30 minutes.
- If you miss an infusion of KISUNLA, you should receive your next dose as soon as possible.

### **What are the possible side effects of KISUNLA?**

**KISUNLA can cause serious side effects, including:**

- See **“What is the most important information I should know about KISUNLA?”**

- **Serious allergic reactions.** Swelling of the face, lips, mouth, or eyelids, difficulty breathing, and hives have happened during a KISUNLA infusion. Tell your healthcare provider if you have any symptoms of a serious allergic reaction during or after KISUNLA infusion.
- **Infusion-related reactions.** Infusion-related reactions, which can be serious, have happened. If you have an infusion-related reaction, your infusion may be slowed down or stopped. Tell your healthcare provider right away if you get these symptoms during an infusion of KISUNLA:

- chills
- irritation of skin
- nausea
- vomiting
- sweating
- headache
- chest pain
- problems breathing

If you have ever had an infusion-related reaction while receiving KISUNLA, your healthcare provider may give you medicines before your KISUNLA infusions to decrease your chance of having an infusion reaction. These medicines may include an antihistamine, acetaminophen, or a steroid.

**The most common side effects of KISUNLA include:**

- swelling in areas of the brain with or without small spots of bleeding in or on the surface of the brain (ARIA).
- headache.

**These are not all the possible side effects of KISUNLA. For more information ask your healthcare provider or pharmacist. Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.**

**General information about the safe and effective use of KISUNLA**

Medicines are sometimes prescribed for purposes other than those listed in this Medication Guide. You can ask your pharmacist or healthcare provider for more information about KISUNLA that is written for health professionals.

**What are the ingredients in KISUNLA?**

**Active ingredient:** donanemab-azbt

**Inactive ingredients:** anhydrous citric acid, polysorbate 80, sodium citrate, sucrose, and Water for Injection, USP

KISUNLA is a trademark of Eli Lilly and Company.

For more information, go to [www.kisunla.com](http://www.kisunla.com) or call 1-800-LillyRx (1-800-545-5979).

**Eli Lilly and Company, Indianapolis, IN 46285, USA**

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This Medication Guide has been approved by the U.S. Food and Drug Administration

Issued: 7/2024

# PACKAGE LABEL - Kisunla 350 mg Vial

Product of Ireland or South Korea

NDC 0002-9401-01

Rx only

kisunla™

(donanemab-azbt)

injection

350 mg/20 mL

(17.5 mg/mL)

For Intravenous Infusion Only

Must Dilute Prior to Use

One Single-Dose Vial

Dispense with enclosed Medication Guide

[www.kisunla.com](http://www.kisunla.com)

Lilly

Product of Ireland

Lot / Exp Date / Serial No  
GTIN: 0030029401018  
(17.5 mg/mL)  
**350 mg/20 mL**  
Injection  
(donanemab-azbt)  
kisunla™

**kisunla™**  
(donanemab-azbt)  
injection  
**350 mg/20 mL**  
(17.5 mg/mL)

Eli Lilly and Company  
Indianapolis, IN 46285, USA  
US License Number: 1891  
Product of Ireland

**Storage:** Refrigerate at 2°C to 8°C (36°F to 46°F). If refrigeration not available, may be stored at room temperature (20°C to 25°C [68°F to 77°F]) for up to 3 days.  
**DO NOT FREEZE OR SHAKE.**  
Keep the vial in the outer carton to protect from light.  
Discard unused portion.  
**Dosage:** See prescribing information.  
**Contents:** Each mL of solution contains 17.5 mg of donanemab-azbt, and anhydrous citric acid (0.32 mg), polysorbate 80 (0.20 mg), sodium citrate (2.15 mg), sucrose (80 mg), and Water for Injection, USP, at a pH of 5.5 - 6.5.  
No preservative.

SH048IPAM01

NDC 0002-9401-01 Rx only

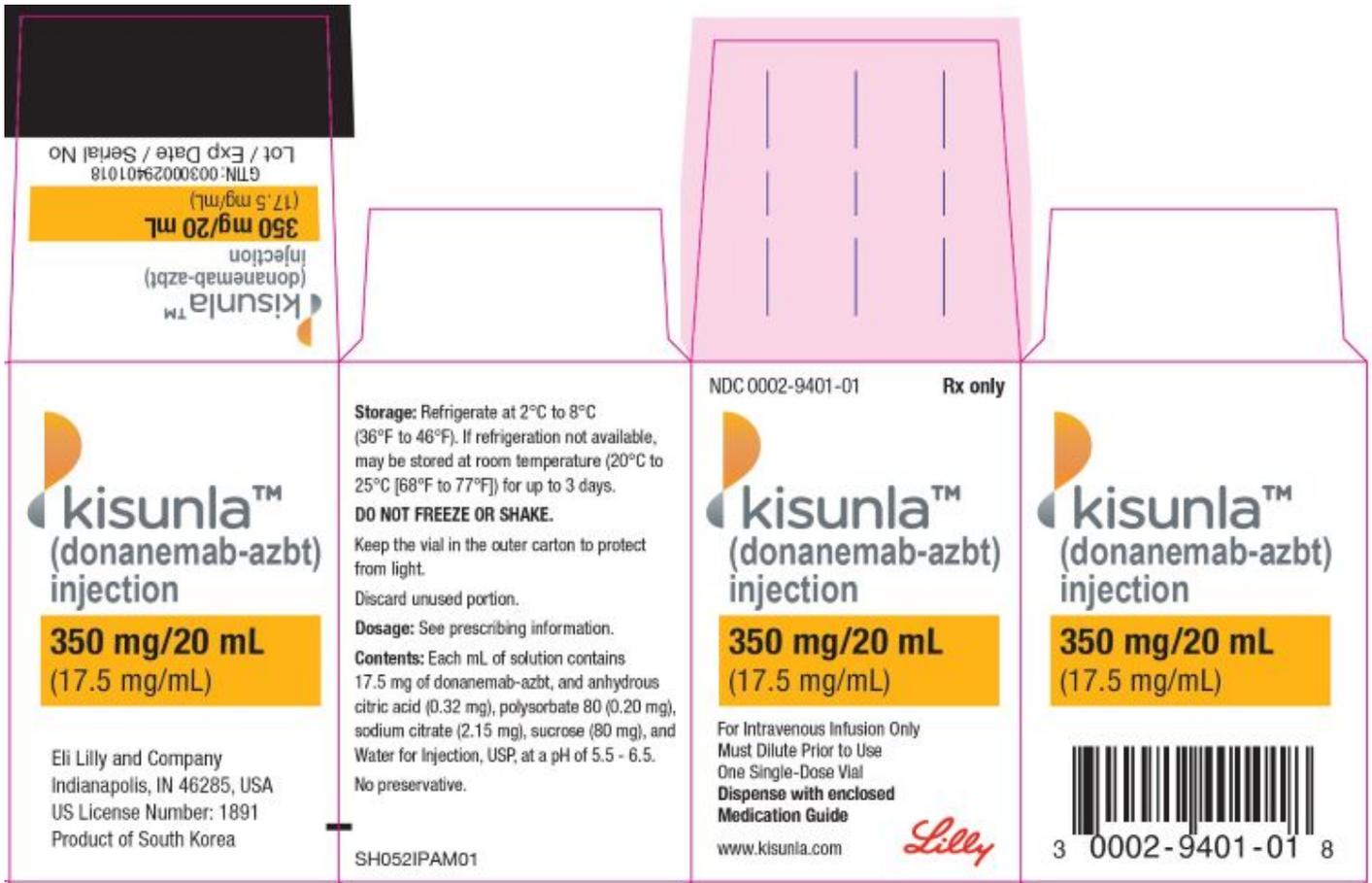
**kisunla™**  
(donanemab-azbt)  
injection  
**350 mg/20 mL**  
(17.5 mg/mL)

For Intravenous Infusion Only  
Must Dilute Prior to Use  
One Single-Dose Vial  
Dispense with enclosed Medication Guide

[www.kisunla.com](http://www.kisunla.com)

3 0002-9401-01 8

Product of South Korea



**KISUNLA**

donanemab-azbt injection, solution

**Product Information**

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:0002-9401
<b>Route of Administration</b>	INTRAVENOUS		

**Active Ingredient/Active Moiety**

Ingredient Name	Basis of Strength	Strength
donanemab (UNII: 1ADB65P1KK) (donanemab - UNII:1ADB65P1KK)	donanemab	17.5 mg in 1 mL

**Inactive Ingredients**

Ingredient Name	Strength
sodium citrate, unspecified form (UNII: 1Q73Q2JULR)	2.15 mg in 1 mL
anhydrous citric acid (UNII: XF417D3PSL)	0.32 mg in 1 mL
sucrose (UNII: C151H8M554)	80 mg in 1 mL
Polysorbate 80 (UNII: 6OZP39ZG8H)	0.20 mg in 1 mL

water (UNII: 059QF0KO0R)

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0002-9401-01	1 in 1 CARTON	07/02/2024	
1		20 mL in 1 VIAL, SINGLE-DOSE; Type 0: Not a Combination Product		

### Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
BLA	BLA761248	07/02/2024	

**Labeler** - Eli Lilly and Company (006421325)

**Registrant** - Eli Lilly and Company (006421325)

Revised: 12/2025

Eli Lilly and Company