

TECELRA- afamitresgene autoleucel injection, suspension

USWM, LLC

HIGHLIGHTS OF PRESCRIBING INFORMATION

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

TECELRA® (afamitresgene autoleucel) suspension, for intravenous infusion
Initial U.S. Approval: 2024

WARNING: CYTOKINE RELEASE SYNDROME

See full prescribing information for complete boxed warning.

Cytokine Release Syndrome (CRS), which may be severe or life-threatening, occurred in patients receiving TECELRA. At the first sign of CRS, immediately evaluate patient for hospitalization and institute treatment with supportive care. Ensure that healthcare providers administering TECELRA have immediate access to medications and resuscitative equipment to manage CRS (2.2, 5.1).

INDICATIONS AND USAGE

TECELRA is a melanoma-associated antigen A4 (MAGE-A4)-directed genetically modified autologous T cell immunotherapy indicated for the treatment of adults with unresectable or metastatic synovial sarcoma who have received prior chemotherapy, are HLA-A*02:01P, -A*02:02P, -A*02:03P, or -A*02:06P positive and whose tumor expresses the MAGE-A4 antigen as determined by FDA-approved or cleared companion diagnostic devices.

This indication is approved under accelerated approval based on overall response rate and duration of response (14). Continued approval for this indication may be contingent upon verification and description of clinical benefit in a confirmatory trial.

DOSAGE AND ADMINISTRATION

For autologous use only. For intravenous use only.

Prior to infusion

- Verify patient's identity prior to infusion (2.2).
- Administer a lymphodepleting regimen of cyclophosphamide and fludarabine (2.2).
- Premedicate with acetaminophen and an H1-antihistamine (2.2).

TECELRA Dose and Administration

The recommended dose is between 2.68×10^9 to 10×10^9 MAGE-A4 T cell receptor (TCR) positive T cells (2.1).

Administer each infusion bag within one hour of thawing.

DO NOT USE a leukodepleting filter (2.2).

DO NOT USE prophylactic systemic corticosteroids (2.2).

DOSAGE FORMS AND STRENGTHS

TECELRA is

- A cell suspension for intravenous infusion.
- Provided in one or more infusion bag(s) containing 2.68×10^9 to 10×10^9 MAGE-A4 TCR positive T cells (3).

CONTRAINDICATIONS

DO NOT use TECELRA in adults who are heterozygous or homozygous for HLA-A*02:05P (4).

WARNINGS AND PRECAUTIONS

Immune Effector Cell-Associated Neurotoxicity Syndrome (ICANS): Monitor for ICANS events for at least 4 weeks after treatment with TECELRA (5.2).

Prolonged Severe Cytopenia: Patients may exhibit severe cytopenia (hemoglobin < 8.0 g/dL, neutrophils $< 1,000/\text{mm}^3$, platelets $< 50,000/\text{mm}^3$) for several weeks following lymphodepleting chemotherapy and TECELRA infusion. Monitor blood counts prior to and after TECELRA infusion (5.3).

Infections: Monitor patients for signs and symptoms of infection; treat appropriately (5.4).

Secondary Malignancies: In the event that a secondary malignancy occurs after treatment with TECELRA,

contact 1-855-246-9232 (5.5).

Hypersensitivity Reactions: Monitor for hypersensitivity reactions during infusion (5.6).

Effects on Ability to Drive and Use Machines: Advise patients to refrain from driving and engaging in hazardous occupations or activities, such as operating heavy or potentially dangerous machinery, for at least 4 weeks after receiving TECELRA (5.2).

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

Most common adverse reactions ($\geq 20\%$) were, cytokine release syndrome, nausea, vomiting, fatigue, infections, pyrexia, constipation, dyspnea, abdominal pain, non-cardiac chest pain, decreased appetite, tachycardia, back pain, hypotension, diarrhea, and edema.

Grade 3 or 4 laboratory abnormalities ($\geq 20\%$) were lymphocyte count decreased, neutrophil count decreased, white cell blood count decreased, red blood cell decreased, and platelet count decreased (6.1). The most common serious adverse reactions ($\geq 5\%$) were cytokine release syndrome and pleural effusion (6.1).

To report SUSPECTED ADVERSE REACTIONS, contact USWM CT, LLC at 1-855-246-9232 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

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FULL PRESCRIBING INFORMATION

WARNING: CYTOKINE RELEASE SYNDROME

Cytokine Release Syndrome (CRS), which may be severe or life-threatening, occurred in patients receiving TECELRA. At the first sign of CRS, immediately evaluate patient for hospitalization and institute treatment with supportive care. Ensure that healthcare providers administering TECELRA have immediate access to medications and resuscitative equipment to manage CRS [see *Preparation and Administration (2.2)*, and *Warnings and Precautions (5.1)*].

1 INDICATIONS AND USAGE

TECELRA is a melanoma-associated antigen A4-(MAGE-A4)-directed genetically modified autologous T cell immunotherapy indicated for the treatment of adults with unresectable or metastatic synovial sarcoma who have received prior chemotherapy, are HLA-A*02:01P, -A*02:02P, -A*02:03P, or -A*02:06P positive and whose tumor expresses the MAGE-A4 antigen as determined by FDA-approved or cleared companion diagnostic devices.

This indication is approved under accelerated approval based on overall response rate and durability of response [see *Clinical Studies (14)*]. Continued approval for this indication may be contingent upon verification and description of clinical benefit in a confirmatory trial.

2 DOSAGE AND ADMINISTRATION

For autologous use only. For intravenous use only.

2.1 Recommended Dose

The recommended dose is between 2.68×10^9 to 10×10^9 MAGE-A4 T cell receptor (TCR) positive T cells administered as a single intravenous infusion.

TECELRA is provided as a single dose for infusion in one or more infusion bag(s). Verify the number of bags received for the indicated dose prior to preparation for infusion.

2.2 Preparation and Administration

Receipt of TECELRA

Plan for TECELRA to arrive prior to beginning lymphodepleting chemotherapy.

Ensure storage conditions in vapor phase of liquid nitrogen ($\leq -130^{\circ}\text{C}$).

TECELRA is shipped directly to the healthcare facility in the vapor phase of a liquid nitrogen shipper. Upon receipt of TECELRA confirm the patient's identifiers on the metal cassette and product bag.

Inspect the product for obvious signs of damage and contact 1-855-246-9232 if any anomalies are identified at the time of receipt.

Transfer TECELRA in the original packaging, containing the cassette(s) protecting the infusion bag(s), to onsite storage at $\leq -130^{\circ}\text{C}$ before the shipper expires.

Store TECELRA in a manner that is consistent with *How Supplied/Storage and Handling (16)*. If unforeseen circumstances prevent proper storage of TECELRA consistent with *How Supplied/Storage and Handling (16)*, contact 1-855-246-9232 to arrange for return shipment.

Preparing Patient for TECELRA Administration

Confirm availability of TECELRA at the healthcare facility prior to starting the lymphodepleting chemotherapy regimen.

Match the patient's identity with the patient identifiers on the TECELRA cassette(s) and infusion bag(s). Do not infuse TECELRA if the information on the patient-specific label(s) does not match the intended patient.

Administer a lymphodepleting chemotherapy regimen of fludarabine $30\text{ mg/m}^2/\text{day}$ intravenously for 4 days starting on the seventh day before TECELRA infusion (Day-7 to Day -4) and cyclophosphamide $600\text{ mg/m}^2/\text{day}$ intravenously for 3 days starting the seventh day before TECELRA infusion (Day -7 to Day -5).

Refer to fludarabine prescribing for information on fludarabine dosage in patients with renal impairment.

Short-acting or pegylated granulocyte-colony stimulating factor (G-CSF) may be administered at the discretion of the physician, and according with institutional standards, from 24 hours after last day of lymphodepleting chemotherapy (from Day -3) until resolution of neutropenia.

Premedication

Premedicate with an H1-antihistamine and acetaminophen according to institutional standard practice, approximately 30-60 minutes prior to TECELRA infusion.

Avoid prophylactic systemic corticosteroids, as it may interfere with the activity of TECELRA.

Preparation of TECELRA for Administration

Do not thaw the product until it is ready to be used. Coordinate the timing of TECELRA thaw and infusion. Confirm infusion time in advance and adjust the start time of TECELRA thaw such that it will be available for infusion when the patient is ready.

A TECELRA dose may be contained in one or more infusion bag(s). Verify the number of bags received for the indicated dose prior to preparation of TECELRA for infusion. If

more than one bag will be infused for the treatment dose, thaw and administer the contents of each infusion bag completely before proceeding to thaw and infuse the contents of the next infusion bag.

1. Confirm patient identity. Prior to TECELRA preparation, match the patient's identity with the patient identifiers on each TECELRA cassette. Do not remove the TECELRA infusion bag(s) from the cassette(s) if the information on the patient-specific label does not match the patient's identity. Contact 1-855-246-9232 if there are any discrepancies between the labels and the patient identifiers.
2. Once patient identity is confirmed, remove TECELRA infusion bag(s) from the cassette(s) and check that the patient identifiers on the cassette label match the patient identifiers on the bag label. Contact 1-855-246-9232 if there are any discrepancies between the patient identifiers on the cassette and bag labels.
3. Inspect the infusion bag for any breaches of container integrity such as breaks or cracks before thawing. If the bag is compromised, do not infuse the contents and call 1-855-246-9232.
4. Place the infusion bag inside a second sealable, preferably sterile bag per institutional standard practice.
5. Thaw the infusion bag at approximately 37°C using a water bath or dry thaw method, until there is no visible ice in the infusion bag.
6. Gently mix the contents of the bag by massaging, to disperse visible cell clumps. Small clumps of cellular material should disperse with gentle manual massaging. Do not infuse TECELRA if clumps are not dispersed. Call 1-855-246-9232.
7. Keep TECELRA at ambient temperature (20°C to 25°C) once thawed. Do not pre-filter into a different container, wash, spin down, or resuspend TECELRA in new media prior to infusion.
8. Administer within one hour.

TECELRA Administration

9. Do not use a leukodepleting filter.
10. Follow universal precautions and local biosafety guidelines for handling and disposal of TECELRA to avoid potential transmission of infectious diseases, due to the presence of human blood cells that are genetically modified with replication incompetent, self-inactivating lentiviral vector.
11. Confirm patient identity with the patient identifiers on the infusion bag(s). Do not infuse TECELRA if the information on the patient-specific label does not match the intended patient. Call 1-855-246-9232. Prime the tubing of the infusion set with 0.9% sodium chloride solution prior to infusion.
12. Administer the TECELRA infusion bag via intravenous infusion within one hour. Administer the entire contents of the TECELRA infusion bag.
13. After the entire contents of the TECELRA infusion bag are infused, rinse the infusion bag with approximately 50mL 0.9% sodium chloride solution to ensure all product is delivered.
14. If more than one infusion bag has been received, administer the content of each

infusion bag completely before proceeding to thaw and infuse the content of the next infusion bag, following steps 1-14 for all subsequent infusion bags.

3 DOSAGE FORMS AND STRENGTHS

TECELRA is a cell suspension for intravenous infusion. A single dose of TECELRA contains 2.68×10^9 to 10×10^9 MAGE-A4 TCR positive T cells in one or more infusion bag(s) [see *How Supplied/Storage and Handling (16)*].

4 CONTRAINDICATIONS

DO NOT use TECELRA in adults who are heterozygous or homozygous for HLA-A*02:05P.

5 WARNINGS AND PRECAUTIONS

5.1 Cytokine Release Syndrome

Cytokine release syndrome (CRS), including potentially life-threatening reaction has been observed following administration of TECELRA. CRS occurred in 75% of patients, 2% of whom had Grade ≥ 3 CRS. The median time to onset was 2 days (range: 1 to 5 days) and the median time to resolution was 3 days (range: 1 to 14 days). The most common symptoms were fever (97%), tachycardia (52%), hypotension (30%), nausea/vomiting (21%) and headache (15%) [see *Adverse Reactions (6)*]. Management for CRS (including Grade 1) was tocilizumab (55%). Thirteen patients received one dose and five patients received more than one dose. Of the five patients who received more than one dose of tocilizumab, two patients received dexamethasone in addition to tocilizumab.

Ensure that healthcare providers administering TECELRA have immediate access to medications and resuscitative equipment to manage CRS. Ensure patients are euvolemic prior to initiating the infusions.

During and following TECELRA administration, closely monitor patients for signs and symptoms of CRS. Following treatment with TECELRA, monitor patients for at least 7 days at the healthcare facility for CRS. Continue to monitor patients for CRS for at least 4 weeks following treatment with TECELRA. Counsel patients to seek medical attention should signs or symptoms of CRS occur. At the first sign of CRS, immediately evaluate patient for hospitalization and institute treatment with supportive care based on severity and consider further management per current practice guidelines.

5.2 Immune Effector Cell-associated Neurotoxicity Syndrome

Immune Effector Cell-associated Neurotoxicity Syndrome (ICANS) has been observed following administration of TECELRA. One patient (2%) had Grade 1 ICANS. Time to onset was two days and time to resolution was one day. Symptoms included mild mental status changes. Other symptoms may include disorientation to time and place, mild drowsiness, mild inattention. Severe symptoms may include altered level of consciousness, seizures, cerebral edema, impairment of cognitive skills, progressive aphasia, motor weakness.

Ensure that healthcare providers administering TECELRA have immediate access to

medications and resuscitative equipment to manage ICANS.

During and following TECELRA administration, closely monitor patients for signs and symptoms of ICANS. Following treatment with TECELRA, monitor patients for at least 7 days at the healthcare facility for ICANS. Continue to monitor patients for ICANS for at least 4 weeks following treatment with TECELRA. Counsel patients to seek medical attention should signs or symptoms of ICANS occur. At the first sign of ICANS, immediately evaluate patients for hospitalization and institute treatment with supportive care based on severity and consider further management per current practice guidelines.

Effect on Ability to Drive and Use Machines

Due to the potential for neurologic events, including dizziness and presyncope, patients receiving TECELRA are at risk for altered or decreased coordination in the 4 weeks following infusion.

Advise patients to refrain from driving and engaging in hazardous occupations or activities, such as operating heavy or potentially dangerous machinery, during this initial period.

5.3 Prolonged Severe Cytopenia

Patients may exhibit severe cytopenias, including neutropenia and thrombocytopenia [*see Adverse Reactions (6)*].

Patients exhibited anemia, neutropenia, and/or thrombocytopenia for several weeks following lymphodepleting chemotherapy and TECELRA infusion. Patients with Grade ≥ 3 cytopenia not resolved by week 4 included anemia (9%), neutropenia (11%), and thrombocytopenia (5%). The median time to resolution was 7.3 weeks (range: 6.1 to 8.4 weeks) for anemia, 9.3 weeks (range: 6.4 to 12.3 weeks) for neutropenia and 6.3 weeks (range: 6.1 to 6.4 weeks) for thrombocytopenia.

Monitor blood counts after TECELRA infusion. Manage cytopenia with growth factor and blood product transfusion according to local institutional guidelines/clinical practice.

5.4 Infections

Infections may occur following lymphodepleting chemotherapy and TECELRA infusion. Infections (all grades) occurred in 32% of patients with synovial sarcoma. Grade 3 or higher infections occurred in 14% of patients.

Do not administer TECELRA to patients with active infections and/or inflammatory disorders.

Monitor patients for signs and symptoms of infection before and after TECELRA infusion and treat patients appropriately.

Febrile neutropenia was observed in patients after TECELRA infusion and may be concurrent with CRS. In the event of febrile neutropenia, evaluate for infection and manage with broad-spectrum antibiotics, fluids and other supportive care, as medically indicated.

Viral reactivation has occurred in patients following treatment with TECELRA. Perform screening for Epstein-Barr Virus, Cytomegalovirus, Hepatitis B Virus, Hepatitis C Virus, Human Immunodeficiency Virus, and any other infectious agents if clinically indicated.

Consider antiviral therapy to prevent viral reactivation per local guidelines.

5.5 Secondary Malignancies

Patients treated with TECELRA may develop secondary malignancies or recurrence of their cancer. Monitor for secondary malignancies.

In the event that a secondary malignancy occurs, contact 1-855-246-9232 to obtain instructions on patient samples to collect for testing.

5.6 Hypersensitivity Reactions

Serious hypersensitivity reactions, including anaphylaxis, may occur due to dimethyl sulfoxide (DMSO) in TECELRA. Observe patients for hypersensitivity reactions during infusion.

5.7 Potential for HIV Nucleic Acid Test False-Positive Results

The lentiviral vector used to make TECELRA has limited, short spans of genetic material which are identical to HIV. Therefore, some commercial HIV nucleic acid tests may yield false-positive results in patients who have received TECELRA.

6 ADVERSE REACTIONS

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.

The safety data described in this section reflects the exposure to TECELRA in 44 patients with advanced synovial sarcoma treated in the SPEARHEAD-1 clinical trial (Cohort 1). Patients with synovial sarcoma received TECELRA across a dose of 2.68×10^9 to 10×10^9 MAG-E-A4 TCR positive T cells [see *Clinical Studies (14)*].

Serious adverse reactions occurred in 52% of patients with synovial sarcoma. The most common serious adverse reactions (occurring in $\geq 5\%$) included CRS (9%) and pleural effusion (7%).

Table 1 summarizes adverse reactions that occurred in at least 10% of patients.

Table 1. Adverse Reactions Occurring in $\geq 10\%$ of Patients in SPEARHEAD-1 (Cohort 1)

SOC Grouped Term	(N=44)	
	All Grades n (%)	Grade ≥ 3 n (%)
Investigations		
Weight decreased	5 (11)	1 (2)
Gastrointestinal disorders		
Nausea	29 (66)	1 (2)
Vomiting	16 (36)	0 (0)

Constipation	14 (32)	0 (0)
Abdominal pain	11 (25)	2 (5)
Diarrhea	9 (21)	0 (0)
General disorders and administration site conditions		
Fatigue	15 (34)	0 (0)
Pyrexia	14 (32)	2 (5)
Non-cardiac chest pain	10 (23)	1 (2)
Chills	7 (16)	0 (0)
Edema	9 (21)	0 (0)
Asthenia	7 (16)	1 (2)
Chest pain	6 (14)	0 (0)
Immune system disorders		
Cytokine Release Syndrome*	33 (75)	1 (2)
Infections and infestations		
Any infection†	14 (32)	6 (14)
Nervous system disorders		
Headache	8 (18)	1 (2)
Dizziness	5 (11)	0 (0)
Metabolism and nutrition disorders		
Decreased appetite	10 (23)	1 (2)
Musculoskeletal and connective tissue disorders		
Back pain	9 (21)	2 (5)
Pain in extremity	6 (14)	0 (0)
Respiratory, thoracic, and mediastinal disorders		
Dyspnea	11 (25)	2 (5)
Cough	8 (18)	0 (0)
Vascular disorders		
Hypotension	9 (21)	0 (0)
Hypertension	7 (16)	1 (2)
Cardiac disorders		
Sinus Tachycardia/ Tachycardia	9 (21)	0 (0)
Skin and subcutaneous tissue disorders		
Alopecia	6 (14)	0 (0)

* As per American Society for Transplantation and Cellular Therapy (ASTCT) criteria¹

† Any infection includes all infection terms under the 'Infections and infestations' System Organ Class

Other clinically important adverse reactions occurring in patients receiving TECELRA include Grade 1 ICANS reported in one patient (2%).

Table 2. Laboratory Abnormalities* Worsened from Baseline in ≥10% of Patients in SPEARHEAD-1 (Cohort 1)

Laboratory Abnormalities	N=44	
	All Grades n (%)	Grade 3 or 4 n (%)

Lymphocyte count decreased	43 (98)	43 (98)
Neutrophil count decreased	42 (96)	40 (91)
White blood cell decreased	42 (96)	38 (86)
Red blood cell decreased	42 (96)	14 (32)
Platelet count decreased	36 (82)	9 (21)
Alanine aminotransferase increased	20 (46)	2 (5)

Grading based on NCI CTCAE version 5.0.

* Abnormalities are laboratory values that were considered an adverse event

7 DRUG INTERACTIONS

None

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

There are no available data with TECELRA use in pregnant women. No animal reproductive and developmental toxicity studies have been conducted with TECELRA to assess whether it can cause fetal harm when administered to a pregnant woman. It is not known if TECELRA has the potential to be transferred to the fetus and cause fetal toxicity. Therefore, TECELRA is not recommended for women who are pregnant, and pregnancy after TECELRA administration should be discussed with the treating physician. Report all pregnancies following treatment with TECELRA to 1-855-246-9232.

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

8.2 Lactation

Risk Summary

There is no information regarding the presence of TECELRA in human milk, the effect on the breastfed infant, and the effects on milk production. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for TECELRA and any potential adverse effects on the breastfed infant from TECELRA or from the underlying maternal condition.

8.3 Females and Males of Reproductive Potential

Pregnancy Testing

Verify pregnancy status of females with reproductive potential prior to starting treatment with TECELRA.

Contraception

There are insufficient exposure data to provide a recommendation concerning duration of contraception following treatment with TECELRA.

8.4 Pediatric Use

The safety and effectiveness of TECELRA have not been established in pediatric patients.

8.5 Geriatric Use

Of the 44 patients with synovial sarcoma in the SPEARHEAD-1 study that received TECELRA, 6.8% were 65 years of age or older. Clinical studies of TECELRA did not include sufficient numbers of patients aged 65 and over to conclude whether they respond differently from younger patients.

11 DESCRIPTION

TECELRA (afamitresgene autoleucel) is a melanoma-associated antigen A4 (MAGE-A4)-directed genetically modified autologous T cell immunotherapy product consisting of CD4 and CD8 positive T cells transduced with a self-inactivating lentiviral vector (LV) expressing an affinity-enhanced T cell receptor (TCR) specific for the human MAGE-A4.

Autologous T cells transduced with MAGE-A4-c1032 LV express the affinity-enhanced TCR on the cell surface. The TCR recognizes an HLA-A*02 restricted MAGE-A4 peptide. MAGE-A4 is an intracellular cancer-testis antigen that has restricted expression in normal tissues and is expressed in synovial sarcoma.

TECELRA is prepared from the patient's peripheral blood mononuclear cells (PBMCs), which are obtained via a standard leukapheresis procedure. The PBMCs are enriched for T cells and are then transduced with a replication-incompetent LV containing the MAGE-A4 TCR transgene. The transduced T cells are expanded, washed, formulated into a suspension, and cryopreserved. The product must pass a sterility test before release and shipping as a frozen suspension in one or more infusion bag(s). The product is thawed prior to infusion back into the patient [*see Preparation and Administration (2.2), How Supplied/Storage and Handling (16)*].

The drug product formulation contains 5% dimethyl sulfoxide (DMSO).

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

TECELRA is a genetically modified autologous T cell immunotherapy consisting of CD4 and CD8 positive T cells transduced with a self-inactivating LV to express an affinity-enhanced TCR specific for human MAGE-A4 on the cell surface.

The TCR recognizes an HLA-A*02 restricted MAGE-A4 peptide. MAGE-A4 is an intracellular cancer-testis antigen that has restricted expression in normal tissues and is expressed in synovial sarcoma. Antigen-specific activation of TECELRA via TCR-peptide-HLA-A*02 complex results in T cell proliferation, cytokine secretion, and killing of MAGE-A4/HLA-A*02 expressing synovial sarcoma cells.

12.2 Pharmacodynamics

In patients with synovial sarcoma who were treated with TECELRA, serum concentrations of cytokines and other soluble factors involved in cellular homeostasis, T cell activation, and inflammation (e.g. IFN γ , IL-6, IL-8, IL-15, and IL-2R α) increased post-

infusion, peaking between Days 3-8.

12.3 Pharmacokinetics

TECELRA exhibited an initial engraftment and expansion phase followed by contraction, and then persistence. High inter-individual variability was observed.

The pharmacokinetics of TECELRA in patients with synovial sarcoma are summarized in Table 3.

Table 3. Pharmacokinetics of Afamitresgene Autoleucel in SPEARHEAD-1 (Cohort 1)*

PK Parameter	N	Statistics	Value
t _{max} (day)	44	Median (range)	7 (1-89)
C _{max} (DNA copies/μg)	44	Geometric mean (CV%)	189269 (109.1%)
AUC _{0-7D} (day*DNA copies/μg)	44	Geometric mean (CV%)	729653 (110.8%)
AUC _{0-28D} (day*DNA copies/μg)	41	Geometric mean (CV%)	3074205 (164.7%)
AUC _{0-3M} (day*DNA copies/μg)	35	Geometric mean (CV%)	4988965 (242.7%)
AUC _{0-6M} (day*DNA copies/μg)	33	Geometric mean (CV%)	6784047 (313.4%)

* All patients received a dose within the range of 2.68×10^9 to 10×10^9 MAGE-A4 TCR positive T cells.

Specific Populations

The pharmacokinetics of afamitresgene autoleucel (C_{max}, AUC_{0-7D}, AUC_{0-28D}, AUC_{0-3M}, AUC_{0-6M}) were not impacted by body weight, body mass index, sex, age (range: 19 to 76 years), and baseline tumor sum of longest diameter (SLD).

Hepatic and renal impairment studies of TECELRA were not conducted.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

No carcinogenicity or genotoxicity studies have been conducted with TECELRA.

A genomic insertion site analysis was performed on TECELRA products from five patients. There was no evidence for preferential integration near genes of concern. No studies have been conducted to evaluate the effects of TECELRA on fertility.

14 CLINICAL STUDIES

Locally Inoperable/ Metastatic Synovial Sarcoma

The efficacy of TECELRA was evaluated in a multicenter, single-arm, open-label clinical trial (SPEARHEAD-1, Cohort 1). The study enrolled HLA-A*02:01P, HLA-A*02:02P, HLA-A*02:03P, and HLA-A*02:06P allele positive patients with inoperable or metastatic synovial sarcoma who had received prior systemic therapy with either doxorubicin and/or ifosfamide and whose tumor expressed the MAGE-A4 tumor antigen. The study included patients with measurable disease according to RECIST v1.1, Eastern

Cooperative Oncology Group (ECOG) performance status of 0 or 1, and glomerular filtration rate (GFR) \geq 60 mL/min. The study excluded patients with HLA-A*02:05P in either allele, patients on systemic corticosteroids for at least 14 days prior to leukapheresis and lymphodepletion, and recipients of allogeneic hematopoietic stem cell transplants.

Patients underwent high resolution HLA typing at a centralized testing site and had tumor samples tested for MAGE-A4 expression by an immunohistochemistry (IHC) clinical trial assay at a centralized testing site. Patients underwent leukapheresis for collection of autologous cells for processing and manufacture into TECELRA. Risk of manufacturing or delivery failure was 8% in the clinical trial (4/52) patients.

Patients received lymphodepleting chemotherapy with fludarabine 30 mg/m²/day for 4 days (Day -7 to Day -4) and cyclophosphamide 600mg/ m²/day for 3 days (Day -7 to Day -5). Patients with GFR 60-79 mL/min received an adjusted fludarabine dose of 20 mg/m²/day. TECELRA was administered as a single intravenous (IV) infusion on Day 1.

Fifty-two (52) patients were enrolled and underwent leukapheresis, eight of whom did not receive TECELRA due to the following: death (n=3), loss of eligibility prior to lymphodepleting chemotherapy (n=3), withdrawal by patient (n=1), investigator decision (n=1). Forty-five (45) patients with synovial sarcoma received lymphodepletion and one patient withdrew consent before receiving TECELRA. There were 44 patients with synovial sarcoma who received a single infusion of TECELRA.

Among the efficacy analysis population demographic characteristics were as follows: median age was 41 years (range: 19 to 73 years), 50% were female, and 89% were White, and 96% were HLA-A*02:01P.

The median number of prior lines of systemic therapies was three (range: 1 to 12 lines). Prior therapies included ifosfamide (100%), doxorubicin (95%), pazopanib (48%), trabectedin (25%), dacarbazine (11%), and gemcitabine (11%). Between leukapheresis and initiation of lymphodepletion, 16 (36%) of the 44 patients received bridging therapy. The most commonly used bridging therapy was pazopanib (69%). The median dose of TECELRA was 8x10⁹ MAGE-A4 TCR positive T cells (range: 2.68 x 10⁹ to 9.99 x10⁹).

The major efficacy outcome measure was overall response rate (ORR) according to RECISTv1.1 evaluated by independent review committee (IRC). Duration of response (DOR) was an additional outcome measure. The ORR results are presented in Table 4.

Table 4. Efficacy Results* for SPEARHEAD-1 (Cohort 1)

Endpoint	TECELRA Treated Population N=44
Overall Response Rate	43.2%
(95% CI) [†]	(28.4, 59.0)
Complete response rate, n (%)	2 (4.5%)
Partial response rate, n (%)	17 (38.6%)
Median Duration of Response [‡] in months	6.0
	(1.6, NR)

(95% CI) [§]	(4.0, NR)
Min, Max	1.9, 36.1+
Patients with DoR ≥ 6 months, % [§]	45.6%
Patients with DoR ≥ 12 months, % [§]	39.0%

CI= confidence interval; NR= not reached.

* Efficacy assessment was by independent review committee according to Response Evaluation Criteria In Solid Tumors (RECIST) v1.1.

† Two-sided 95% confidence interval based on exact Clopper-Pearson (exact Binomial) method.

‡ Duration of response only applies to patients with a complete or partial response.

§ Two-sided 95% confidence interval and % of patients with response duration ≥6 and ≥12 months based on Kaplan-Meier method.

The median time to response from TECELRA treatment was 4.9 weeks (95% CI: 4.4 weeks, 8 weeks) by Kaplan Meier estimation.

15 REFERENCES

1. Lee DW, Santomasso BD, Locke FL, et al. ASTCT consensus grading for cytokine release syndrome and neurologic toxicity associated with immune effector cells. Biol Blood Marrow Transplant 2019; 25: 625-638.

16 HOW SUPPLIED/STORAGE AND HANDLING

TECELRA is supplied in one or more infusion bag(s) containing a frozen suspension of genetically modified autologous T cells in 5% DMSO. Each TECELRA infusion bag is individually packed in a metal cassette. Product and patient-specific labels are located on both the product infusion bag(s) and the protective shipping cassette(s).

Each infusion bag (250ml) is contained within a protective metal cassette (NDC 83205-0001-2).

TECELRA is shipped in a liquid nitrogen dry vapor shipper at less than or equal to -130°C.

Store TECELRA in the original packaging, containing the cassette(s) protecting the infusion bag(s), in the vapor phase of liquid nitrogen at less than or equal to -130°C.

17 PATIENT COUNSELING INFORMATION

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

Discuss the following with the patient:

- Inform patients that there is a chance of manufacturing or delivery failure (approximately 8% in the clinical trial). Therefore, a second manufacture of TECELRA may be attempted.
- Inform patients that additional therapy (other than lymphodepletion) may be necessary before TECELRA manufacturing is completed. This may increase the risk of

adverse reactions during the pre-infusion period, which could delay or prevent administration of TECELRA.

- Inform patients that following infusion, it will be necessary to be monitored daily at the healthcare facility for at least 7 days for signs and symptoms of cytokine release syndrome (CRS). Patients must remain within proximity of a healthcare facility for at least 4 weeks following infusion.
- Advise patients to seek immediate medical attention if any of the following occur:
 - Cytokine Release Syndrome: inform patients that symptoms may include fever, rigors, fast heartbeat, irregular heartbeat, low blood pressure, lightheadedness or dizziness, shortness of breath, nausea/vomiting, diarrhea, and headache [see *Warnings and Precautions (5.1) and Adverse Reactions (6)*].
 - Immune Effector Cell-Associated Neurotoxicity Syndrome (ICANS): inform patients that symptoms may include confusion, depressed level of consciousness, delirium, seizures, language difficulty [see *Warnings and Precautions (5.2) and Adverse Reactions (6)*].
 - Bone marrow suppression and prolonged severe cytopenias: inform patients that symptoms may include bleeding or bruising, tiredness, shortness of breath, fever, pain, redness for several weeks following lymphodepleting chemotherapy and TECELRA blood counts before and after TECELRA infusion should be periodically monitored [see *Warnings and Precautions (5.3) and Adverse Reactions (6)*].
 - Infections: inform patients that they may exhibit signs or symptoms associated with infection, and that past infections can be reactivated following treatment with TECELRA [see *Warnings and Precautions (5.4) and Adverse Reactions (6)*].

Advise patients for the need to:

- Contact 1-855-246-9232 if they are diagnosed with a secondary malignancy [see *Warnings and Precautions (5.5)*].
- Refrain from driving or operating heavy or potentially dangerous machines for at least 4 weeks after TECELRA administration [see *Warnings and Precautions (5.2)*].

Manufactured by: USWM CT, LLC
351 Rouse Boulevard
Philadelphia, PA 19112

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Medication Guide

TECELRA® (pronounced tuh-sel-ruh) (afamitresgene autoleucel)

Read this Medication Guide before you start your TECELRA treatment. Talk with your healthcare provider if you have questions about your health condition or treatment. Reading this Medication Guide does not take the place of talking with your healthcare provider about your treatment.

What is the most important information I should know about TECELRA?

You will likely be in a hospital before and after getting TECELRA.

TECELRA may cause side effects that can be severe or life-threatening. Call your healthcare provider or get emergency help right away if you get any of the following:

- Fever (100.4°F/38°C or higher)
- Chills/Shivering
- Difficulty breathing
- Fast or irregular heartbeat
- Low blood pressure
- Fatigue
- Severe nausea, vomiting, or diarrhea
- Severe headache
- New skin rash

Tell all your healthcare providers that you were treated with TECELRA.

What is TECELRA?

TECELRA is a medicine, called a *genetically modified autologous T cell immunotherapy*, that is used to treat synovial sarcoma. It is used when other kinds of treatment do not work.

TECELRA is different from other cancer medicines because it is made from your own white blood cells that are made to recognize and attack your cancer cells.

Your healthcare provider will perform tests to see if TECELRA is right for you.

Before you get TECELRA, tell your healthcare provider about all your medical problems, including:

- Seizure, stroke, confusion, or memory loss
- Heart, liver or kidney problems
- Low blood pressure
- Lung or breathing problems
- Recent or active infection
- Past infections which can be reactivated following treatment with TECELRA
- Low blood counts
- Pregnancy, you think you may be pregnant, or plan to become pregnant
- Breastfeeding
- Taking a blood thinner

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements.

How will I get TECELRA?

Since TECELRA is made from your own white blood cells, your blood will be collected by a process called "leukapheresis" (loo-kah-fur-ee-sis). This gets sent to a company to make the TECELRA for you.

It takes about 6 weeks to get your TECELRA back, but the time may vary.

While your TECELRA is being made, your healthcare provider may give you other medicines to stabilize your cancer.

Before you get your TECELRA, you will get 4 days of chemotherapy to prepare your body.

When your TECELRA is ready, you get a tube (intravenous catheter) placed into your vein and your dose of TECELRA will be given in one or more infusion bags. The infusion may take up to 60 minutes for each infusion bag.

After getting TECELRA, you will be monitored daily at the healthcare facility, for at least 7 days after the infusion.

You should plan to stay close to a healthcare facility for at least 4 weeks. Your healthcare provider will check to see that your treatment is working and help you with any side effects that may occur.

Your healthcare provider will do blood tests to follow your progress. It is important that you have your blood tested. If you miss a scheduled appointment for your collection of blood, call your healthcare provider as soon as possible to reschedule.

What are the possible or reasonably likely side effects of TECELRA?

The most common side effects of TECELRA include:

- Nausea
- Vomiting
- Fatigue
- Constipation
- Fever (100.4°F/38°C or higher)
- Infection
- Abdominal pain
- Difficulty breathing
- Decreased appetite
- Diarrhea
- Low blood pressure
- Back pain
- Fast heart rate
- Chest pain
- General body swelling
- Low white blood cells
- Low red blood cells
- Low platelets

What should I avoid after receiving TECELRA?

Do not drive, operate heavy machinery, or do other activities that could be dangerous for at least 4 weeks after you get TECELRA.

Do not donate blood, organs, tissues, or cells for transplantation.

What are the ingredients in TECELRA?

Active ingredient: afamitresgene autoleucel

Inactive ingredients: Dimethyl Sulfoxide (DMSO)

Issued: Aug 2024

PRINCIPAL DISPLAY PANEL - Bag and Cassette Label

afamitresgene autoleucel
Tecelra®

NDC 83205-0001-2

Rx ONLY

FOR AUTOLOGOUS & INTRAVENOUS USE ONLY
No U.S. standard of potency

Contains: 2.68×10^9 to 10×10^9 MAGE-A4 TCR positive T cells in frozen suspension containing 5% DMSO (no preservative)

Gently mix by massaging
post-thaw.

See full prescribing information for
instructions for administration.
Store and transport at $\leq -130^\circ\text{C}$.

Suspension for intravenous infusion
GENETICALLY MODIFIED
DO NOT USE A LEUKODEPLETING
FILTER OR IRRADIATE
Not evaluated for infectious substances

Manufacturer: USWM CT, LLC, Philadelphia, PA 19112 USA
Phone: 1-855-246-9232 U.S. Lic. #2416

LBL 00034 Rev 02



NDC 83205-0001-2

afamitresgene autoleucel
Tecelra®

Rx ONLY

FOR AUTOLOGOUS & INTRAVENOUS USE ONLY
No U.S. standard of potency

Contains: 2.68 x 10⁹ to 10 x 10⁹ MAGE-A4 TCR positive T cells in frozen suspension containing 5% DMSO (no preservative)

Gently mix by massaging post-thaw.

See full prescribing information for instructions for administration.
Store and transport at ≤ -130°C.

Suspension for intravenous infusion

GENETICALLY MODIFIED
DO NOT USE A LEUKODEPLETING FILTER OR IRRADIATE

Not evaluated for infectious substances

Manufacturer: USWM CT, LLC, Philadelphia, PA 19112 USA
Phone: 1-855-246-9232 U.S. Lic. #2416



LBL 00034 Rev 02

PRINCIPAL DISPLAY PANEL - Bag Label - Patient Identifier

afamitresgene autoleucel
Tecelra® **VERIFY PATIENT IDENTIFIERS**

Patient MRN: MAX14CHARACTER
COID: MAX.18-CHARACTERS/


First Name MI: MAX.14CHARACTR
Last Name: MAX-14CHARACTR
DOB: 01-Jan-2000
DIN: MAX.16CHARACTERS


Exp: 31-Dec-2024
Lot: MAX.16-CHARACTER
LBL00035Rev00 Bag 01 of 01 

afamitresgene autoleucel
Tecelra®
VERIFY PATIENT
IDENTIFIERS

Patient MRN: MAX14CHARACTER
COID: MAX.18-CHARACTERS/

First Name MI: MAX.14CHARACTR
Last Name: MAX-14CHARACTR
DOB: 01-Jan-2000
DIN: MAX.16CHARACTERS

Exp. 31-Dec-2024
Lot: MAX.16-CHARACTER
LBL 00035 Rev 00 Bag 01 of 01

PRINCIPAL DISPLAY PANEL - Cassette Label - Patient Identifier

The cassette label features a red octagonal 'STOP' sign on the left with the text 'Confirm patient identifiers prior to infusion'. To the right, the product name 'afamitresgene autoleucel Tecelra®' is displayed in pink and red. Below this, patient identifiers are listed: 'Patient MRN: MAX14CHARACTER', 'COID: MAX.18.CHARACTERS/' (with a barcode), 'First Name MI: MAX.14CHARACTR', 'Last Name: MAX-14CHARACTR', 'DOB: 01-Jan-2000', and 'DIN: MAX.16CHARACTERS' (with a barcode). A QR code is located at the bottom right. At the bottom of the label, the text reads: 'LBL00036Rev00 Exp: 31-Dec-2024 Bag01of01 Lot: MAX.16-CHARACTER'.

STOP
Confirm patient
identifiers prior
to infusion

afamitresgene autoleucel
Tecelra®

Patient MRN: MAX14CHARACTER
COID: MAX.18.CHARACTERS/

First Name MI: MAX.14CHARACTR
Last Name: MAX-14CHARACTR
DOB: 01-Jan-2000
DIN: MAX.16CHARACTERS

LBL 00036 Rev 00 Exp. 31-Dec-2024 Bag 01 of 01 Lot: MAX.16-CHARACTER

TECELRA			
afamitresgene autoleucel injection, suspension			
Product Information			
Product Type	CELLULAR THERAPY	Item Code (Source)	NDC:83205-0001
Route of Administration	INTRAVENOUS		
Active Ingredient/Active Moiety			
	Ingredient Name	Basis of Strength	Strength
	AFAMITRESGENE AUTOLEUCEL (UNII: CUY18BJ7BP) (AFAMITRESGENE AUTOLEUCEL - UNII:CUY18BJ7BP)	AFAMITRESGENE AUTOLEUCEL	10000000000

Inactive Ingredients

Ingredient Name	Strength
DIMETHYL SULFOXIDE (UNII: YOW8V9698H)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:83205-0001-2	1 in 1 BAG; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
BLA	BLA125789	08/02/2024	

Labeler - USWM, LLC (117542566)

Registrant - Adaptimmune LLC (078438854)

Establishment

Name	Address	ID/FEI	Business Operations
USWM CT, LLC		144859435	ANALYSIS(83205-0001) , MANUFACTURE(83205-0001) , API MANUFACTURE(83205-0001) , PACK(83205-0001) , LABEL(83205-0001)

Revised: 1/2026

USWM, LLC