

BIVALIRUDIN - bivalirudin injection, solution

MAIA Pharmaceuticals, Inc.

HIGHLIGHTS OF PRESCRIBING INFORMATION

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

BIVALIRUDIN injection, for intravenous use

Initial U.S. Approval: 2000

INDICATIONS AND USAGE

Bivalirudin Injection is a direct thrombin inhibitor indicated for use as an anticoagulant in patients undergoing percutaneous coronary intervention (PCI), including patients with heparin-induced thrombocytopenia and heparin-induced thrombocytopenia and thrombosis syndrome. (1)

DOSAGE AND ADMINISTRATION

- The recommended dosage is a 0.75 mg/kg intravenous bolus dose followed immediately by a 1.75 mg/kg/h intravenous infusion for the duration of the procedure. Five minutes after the bolus dose, assess activated clotting time (ACT) to determine if an additional bolus of 0.3 mg/kg is needed.
- Consider extending duration of infusion post-procedure up to 4 hours in patients with ST segment elevation MI

DOSAGE FORMS AND STRENGTHS

Injection: 250 mg/50 mL (5 mg/mL) in a single-dose vial. Ready-to-use. (3)

CONTRAINDICATIONS

- Significant active bleeding
- Hypersensitivity to bivalirudin or its components

WARNINGS AND PRECAUTIONS

- Bleeding events: bivalirudin increases the risk of bleeding. Its anticoagulant effect subsides approximately one hour after discontinuation.
- Thrombotic risk with coronary artery brachytherapy: An increased risk of thrombus formation, including fatal outcomes, in gamma brachytherapy.

ADVERSE REACTIONS

Most common adverse reaction was bleeding (3.7%). (6)

To report SUSPECTED ADVERSE REACTIONS, contact MAIA Pharmaceuticals, Inc. at 1-888-877-9064 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch. (6)

DRUG INTERACTIONS

Heparin, warfarin, thrombolytics, or GPs: Increased major bleeding risk with concomitant use. (7)

USE IN SPECIFIC POPULATIONS

Geriatric patients: Increased bleeding risk possible. (8)

Renal impairment: Reduce infusion dose and monitor ACT. (8)

See 17 for PATIENT COUNSELING INFORMATION.

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

Bivalirudin Injection is indicated for use as an anticoagulant in patients undergoing percutaneous coronary intervention (PCI), including patients with heparin-induced thrombocytopenia and heparin-induced thrombocytopenia and thrombosis syndrome.

2 DOSAGE AND ADMINISTRATION

2.1 Recommended Dosage

The recommended dose of Bivalirudin Injection is an intravenous bolus dose of 0.75 mg/kg, followed immediately by a maintenance infusion of 1.75 mg/kg/h for the duration of the procedure. Five minutes after the bolus dose has been administered, assess activated clotting time (ACT) to determine if an additional bolus of 0.3 mg/kg is needed.

Consider extending duration of infusion following PCI at 1.75 mg/kg/h for up to 4 hours post- procedure in patients with ST segment elevation MI (STEMI).

2.2 Dose Adjustment in Renal Impairment

Bolus Dose:

No reduction in the bolus dose is needed for any degree of renal impairment.

Maintenance Infusion:

In patients with creatinine clearance less than 30 mL/min (by Cockcroft Gault equation), reduce the infusion rate to 1 mg/kg/h.

In patients on hemodialysis, reduce the infusion rate to 0.25 mg/kg/h [see *Use in Specific Populations (8.6), Clinical Pharmacology (12.3)*].

2.3 Instructions for Administration

Bivalirudin Injection is a ready-to-use-sterile solution for intravenous use only.

Inspection of Container

Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit.

Once removed from the refrigerator, Bivalirudin Injection may be stored at room temperature 20° to 25°C (68° to 77°F) for up to 72 hours [see *How Supplied Storage and Handling (16.2)*]. Discard any unused portion.

Drug Compatibilities

No incompatibilities have been observed with administration sets.

Do not administer the drugs listed in **Table 1** in the same intravenous line with Bivalirudin Injection.

Table 1. Drugs Not for Administration in the Same Intravenous Line with Bivalirudin Injection

Alteplase
Amiodarone HCl
Amphotericin B
Chlorpromazine HCl
Diazepam
Dobutamine
Prochlorperazine Edisylate
Retepase
Streptokinase
Vancomycin HCl

3 DOSAGE FORMS AND STRENGTHS

Injection, clear to slightly opalescent, colorless to yellow sterile solution:

- 250 mg of bivalirudin per 50 mL (5 mg/mL) in a single-dose vial. Ready-to-use. Each

vial contains 250 mg of bivalirudin equivalent to an average of 275 mg bivalirudin trifluoroacetate*.

**The range of bivalirudin trifluoroacetate is 270 to 280 mg based on a range of trifluoroacetic acid composition of 1.7 to 2.6 equivalents.*

4 CONTRAINDICATIONS

Bivalirudin Injection is contraindicated in patients with:

- Significant active bleeding;
- Hypersensitivity to Bivalirudin Injection or its components [see *Adverse Reactions (6.2)*].

5 WARNINGS AND PRECAUTIONS

5.1 Bleeding Events

Bivalirudin increases the risk of bleeding [see *Adverse Reactions (6.1)*]. Bivalirudin's anticoagulant effect subsides approximately one hour after discontinuation [see *Clinical Pharmacology (12.2)*].

5.2 Thrombotic Risk with Coronary Artery Brachytherapy

An increased risk of thrombus formation, including fatal outcomes, has been associated with the use of bivalirudin in gamma brachytherapy [see *Adverse Reactions (6.2)*].

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.

In the BAT trials, 79 of the 2161 (3.7%) of subjects undergoing PCI for treatment of unstable angina and randomized to bivalirudin experienced intracranial bleeding, retroperitoneal bleeding, clinically overt bleeding with a decrease in hemoglobin greater than 3 g/dL or leading to a transfusion of greater than 2 units of blood.

Immunogenicity/Re-Exposure

As with all therapeutic proteins, there is potential for immunogenicity. The detection of antibody formation is highly dependent on the sensitivity and specificity of the assay. Additionally, the observed incidence of antibody (including neutralizing antibody) positivity in an assay may be influenced by several factors including assay methodology, sample handling, timing of sample collection, concomitant medications, and underlying disease. For these reasons, comparison of the incidence of antibodies to bivalirudin in the studies described below with the incidence of antibodies in other studies or to other products may be misleading.

In *in vitro* studies, bivalirudin exhibited no platelet aggregation response against sera

from patients with a history of HIT/HITTS.

Among 494 subjects who received bivalirudin in clinical trials and were tested for antibodies, 2 subjects had treatment-emergent positive bivalirudin antibody tests. Neither subject demonstrated clinical evidence of allergic or anaphylactic reactions and repeat testing was not performed. Nine additional patients who had initial positive tests were negative on repeat testing.

6.2 Postmarketing Experience

Because postmarketing adverse reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

The following adverse reactions have been identified during post-approval use of bivalirudin: fatal bleeding; hypersensitivity and allergic reactions including reports of anaphylaxis; lack of anticoagulant effect; thrombus formation during PCI with and without intracoronary brachytherapy, including reports of fatal outcomes; pulmonary hemorrhage; cardiac tamponade; and INR increased.

7 DRUG INTERACTIONS

In clinical trials in patients undergoing PCI, co-administration of bivalirudin with heparin, warfarin, thrombolytics, or GPIs was associated with increased risks of major bleeding events compared to patients not receiving these concomitant medications.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

There are no available data on use of bivalirudin in pregnant women to inform a drug-associated risk of adverse developmental outcomes. Reproduction studies in rats and rabbits administered subcutaneously (SC) doses up to 1.6 times and 3.2 times the maximum recommended human dose (MRHD) based on body surface area (BSA), respectively, revealed no evidence of fetal harm.

All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. 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.

Data

Animal Data

Reproductive studies have been performed in rats at subcutaneous doses up to 150 mg/kg/day, (1.6 times the maximum recommended human dose based on body surface area) and rabbits at subcutaneous doses up to 150 mg/kg/day (3.2 times the maximum recommended human dose based on body surface area). These studies revealed no harm to the fetus attributable to bivalirudin.

At 500 mg/kg/day subcutaneously, litter sizes and live fetuses in rats were reduced. Fetal skeletal variations were also noted. Some of these changes could be attributed to maternal toxicity observed at high doses.

8.2 Lactation

Risk Summary

It is not known whether bivalirudin is present in human milk. No data are available on the effects of bivalirudin on the breastfed child or on milk production.

8.4 Pediatric Use

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

8.5 Geriatric Use

In studies of patients undergoing PCI, 44% were ≥ 65 years of age and 12% of patients were ≥ 75 years old. Elderly patients experienced more bleeding events than younger patients.

8.6 Renal Impairment

The disposition of bivalirudin was studied in PTCA patients with mild, moderate and severe renal impairment. The clearance of bivalirudin was reduced approximately 21% in patients with moderate and severe renal impairment and was reduced approximately 70% in dialysis-dependent patients [see *Clinical Pharmacology (12.3)*]. The infusion dose of Bivalirudin Injection may need to be reduced, and anticoagulant status monitored in patients with renal impairment [see *Dosage and Administration (2.2)*].

10 OVERDOSAGE

Cases of overdose of up to 10 times the recommended bolus or continuous infusion dose of bivalirudin have been reported in clinical trials and in postmarketing reports. A number of the reported overdoses were due to failure to adjust the infusion dose of bivalirudin in persons with renal dysfunction including persons on hemodialysis [see *Dosage and Administration (2.2)*]. Bleeding, as well as deaths due to hemorrhage, have been observed in some reports of overdose. In cases of suspected overdose, discontinue bivalirudin immediately and monitor the patient closely for signs of bleeding. There is no known antidote to bivalirudin. Bivalirudin is hemodialyzable [see *Clinical Pharmacology (12.3)*].

11 DESCRIPTION

Bivalirudin Injection contains bivalirudin trifluoroacetate, which is a specific and reversible direct thrombin inhibitor. Bivalirudin trifluoroacetate is a synthetic, 20 amino acid peptide salt, with the chemical name of D-phenylalanyl-L-prolyl-L-arginyl-L-prolylglycylglycylglycylglycyl-L-asparagylglycyl-L- α -aspartyl-L-phenylalanyl-L- α -glutamyl-L- α -glutamyl-L-isoleucyl-L-prolyl-L- α -glutamyl-L- α -glutamyl-L-tyrosyl-L-leucine trifluoroacetate. Each molecule of bivalirudin trifluoroacetate contains 1.7 to 2.6

equivalents of trifluoroacetic acid. The molecular formula of bivalirudin free base is $C_{98}H_{138}N_{24}O_{33}$ and its molecular weight is 2180.32 Daltons (anhydrous free base peptide). The structural formula of bivalirudin free base is

Figure 1: Structural Formula of Bivalirudin

Bivalirudin Injection is supplied as a refrigerated, ready-to-use, sterile solution packaged in a 50 mL single-dose vial. Each milliliter of Bivalirudin Injection contains 5 mg bivalirudin (as trifluoroacetate salt)*, 0.8 mg sodium acetate trihydrate, 100 mg polyethylene glycol 400, and Water for Injection.

The pH of Bivalirudin Injection may have been adjusted with sodium hydroxide and/or glacial acetic acid to 5.0 to 5.5. The solution is intended for intravenous administration at room temperature (20°C to 25°C/68°F to 77°F).

**The range of bivalirudin trifluoroacetate is 5.4 to 5.6 mg based on a range of trifluoroacetic acid composition of 1.7 to 2.6 equivalents.*

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Bivalirudin directly inhibits thrombin by specifically binding both to the catalytic site and to the anion-binding exosite of circulating and clot-bound thrombin. Thrombin is a serine proteinase that plays a central role in the thrombotic process, acting to cleave fibrinogen into fibrin monomers and to activate Factor XIII to Factor XIIIa, allowing fibrin to develop a covalently cross-linked framework which stabilizes the thrombus; thrombin also activates Factors V and VIII, promoting further thrombin generation, and activates platelets, stimulating aggregation and granule release. The binding of bivalirudin to thrombin is reversible as thrombin slowly cleaves the bivalirudin-Arg3-Pro4 bond,

resulting in recovery of thrombin active site functions.

12.2 Pharmacodynamics

In healthy volunteers and patients (with $\geq 70\%$ vessel occlusion undergoing routine PTCA), bivalirudin exhibited dose- and concentration-dependent anticoagulant activity as evidenced by prolongation of the ACT, aPTT, PT, and TT. Intravenous administration of bivalirudin produces an immediate anticoagulant effect. Coagulation times return to baseline approximately 1 hour following cessation of bivalirudin administration. Bivalirudin also increases INR.

In 291 patients with $\geq 70\%$ vessel occlusion undergoing routine PTCA, a positive correlation was observed between the dose of bivalirudin and the proportion of patients achieving ACT values of 300 sec or 350 sec. At a bivalirudin dose of 1 mg/kg intravenous bolus plus 2.5 mg/kg/h intravenous infusion (1.4 times higher than the approved dose of 1.75 mg/kg/h) for 4 hours, followed by 0.2 mg/kg/h, all patients reached maximal ACT values greater than 300 sec.

12.3 Pharmacokinetics

Bivalirudin exhibits linear pharmacokinetics following intravenous administration to patients undergoing PTCA. In these patients, a mean steady state bivalirudin concentration of 12.3 ± 1.7 mcg/mL is achieved following an intravenous bolus of 1 mg/kg and a 4-hour 2.5 mg/kg/h intravenous infusion.

Distribution

Bivalirudin does not bind to plasma proteins (except thrombin) or to red blood cells.

Elimination

Bivalirudin has a half-life of 25 minutes in PTCA patients with normal renal function. The total body clearance of bivalirudin in PTCA patients with normal renal function is 3.4 mL/min/kg.

Metabolism

Bivalirudin is metabolized by proteolytic cleavage.

Excretion

Bivalirudin undergoes glomerular filtration. Tubular secretion and tubular reabsorption are also implicated in the excretion of bivalirudin, although the extent is unknown.

Specific Populations

Patients with Renal Impairment

Total body clearance was similar for PTCA patients with normal renal function and with mild renal impairment. Clearance was reduced by 21% in patients with moderate and severe renal impairment with a half-life of 34 and 57 minutes, respectively. In dialysis patients, clearance was reduced by 70%, with a half-life of 3.5 hours. Approximately 25% bivalirudin is cleared by hemodialysis.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

No long-term studies in animals have been performed to evaluate the carcinogenic potential of bivalirudin. Bivalirudin displayed no genotoxic potential in the *in vitro* bacterial cell reverse mutation assay (Ames test), the *in vitro* Chinese hamster ovary cell forward gene mutation test (CHO/HGPRT), the *in vitro* human lymphocyte chromosomal aberration assay, the *in vitro* rat hepatocyte unscheduled DNA synthesis (UDS) assay, and the *in vitro* rat micronucleus assay. Fertility and general reproductive performance in rats were unaffected by subcutaneous doses of bivalirudin up to 150 mg/kg/day, about 1.6 times the dose on a body surface area basis (mg/m²) of a 50 kg person given the maximum recommended dose of 15 mg/kg/day.

14 CLINICAL STUDIES

Bivalirudin Angioplasty Trial (BAT)

In the BAT studies, patients with unstable angina undergoing PCI were randomized 1:1 to a 1 mg/kg bolus of bivalirudin and then 2.5 mg/kg/h for four hours and then 0.2 mg/kg/h for 14 to 20 hours or to 175 IU/kg bolus of heparin followed by an 18- to 24-hour infusion of 15 IU/kg/h infusion. Additional heparin but not bivalirudin could be administered for ACT less than 350 seconds. The studies were designed to demonstrate the superiority of bivalirudin to heparin on the occurrence of any of the following during hospitalization up to seven days of death, MI, abrupt closure of the dilated vessel, or clinical deterioration requiring revascularization or placement of an aortic balloon pump.

The 4312 subjects ranged in age from 29 to 90 (median 63) years. 68% were male, and 91% were Caucasian. Median weight was 80 kg (39 to 120 kg). 741 (17%) subjects had post-MI angina.

Twenty-three percent of patients were treated with heparin within one hour prior to randomization.

The studies did not demonstrate that bivalirudin was statistically superior to heparin for reducing the risk of death, MI, abrupt closure of the dilated vessel, or clinical deterioration requiring revascularization or placement of an aortic balloon pump, but the occurrence of these events was similar in both treatment groups. Study outcomes are shown in **Table 2**.

Table 2: Incidences of In-hospital Endpoints in BAT Trial

Endpoint	Bivalirudin (n=2161)	HEPARIN (n=2151)
Primary endpoint [†]	7.9%	9.3%
Death, MI, revascularization	6.2%	7.9%
Death	0.2%	0.2%
MI	3.3%	4.2%

[†] A composite of death or MI or clinical deterioration of cardiac origin requiring revascularization or placement of an aortic balloon pump or angiographic evidence of abrupt vessel closure

AT-BAT Trial (NCT# 00043940)

This was a single-arm open-label study in which 51 subjects with heparin-induced

thrombocytopenia (HIT) or heparin induced thrombocytopenia and thrombosis syndrome (HITTS) undergoing PCI. The majority of patients achieved adequate ACT at the time of device activation and no major bleeding was reported. Two patients developed thrombocytopenia.

16 HOW SUPPLIED/STORAGE AND HANDLING

16.1 How Supplied

Bivalirudin Injection is supplied as a refrigerated, ready-to-use, clear to slightly opalescent, colorless to yellow, sterile solution in 250 mg/50 mL (5 mg/mL) single-dose, glass vials. The single-dose vials are available as follows:

- NDC 70511-142-50: Carton containing 1 Bivalirudin Injection single-dose vial
- NDC 70511-142-84: Carton containing 10 Bivalirudin Injection single-dose vials

Each vial contains 250 mg of bivalirudin (equivalent to an average of 275 mg bivalirudin trifluoroacetate*).

**The range of bivalirudin trifluoroacetate is 270 to 280 mg based on a range of trifluoroacetic acid composition of 1.7 to 2.6 equivalents.*

16.2 Storage

Store Bivalirudin Injection vials in the refrigerator between 2° to 8°C (36° to 46°F). Once removed from the refrigerator, Bivalirudin Injection may be stored at room temperature 20° to 25°C (68° to 77°F) for up to 72 hours) [see *Dosage and Administration (2.3)*]. Avoid excess heat.

17 PATIENT COUNSELING INFORMATION

Advise patients to watch carefully for any signs of bleeding or bruising and to report these to their healthcare provider when they occur.

Manufactured for

MAIA Pharmaceuticals, Inc.

Princeton, NJ 08540

PACKAGE LABEL.PRINCIPAL DISPLAY PANEL

NDC 70511-**142**-50

Bivalirudin

Injection


250 mg/50 mL

(5 mg/mL)

For Intravenous Use Only

Ready to Use

Do Not Dilute
One Single-Dose Vial
Discard Unused Portion
MAIA Rx Only

<p>EXP: YY-MM-DD LOT: A231XXXXX GTIN:XXXXXXXXXXXXXXX</p>	<p>CAR-XXXXXX-XX</p>		
<p>NDC 70511-142-50</p> <p>Bivalirudin Injection</p> <p>250 mg/50 mL (5 mg/mL)</p> <p>For Intravenous Use Only</p> <p>Ready To Use Do Not Dilute</p> <p>One Single-Dose Vial Discard Unused Portion</p> <p>MAIA Rx Only</p>	<p>Each milliliter contains 5 mg bivalirudin equivalent to an average of 5.5 mg bivalirudin trifluoroacetate, 0.8 mg sodium acetate trihydrate, USP, 100 mg polyethylene glycol 400, NF and Water for Injection, USP. The pH of Bivalirudin Injection may have been adjusted with sodium hydroxide and/or glacial acetic acid.</p> <p>Recommended Dosage: See prescribing information.</p> <p>Store Bivalirudin Injection vials in the refrigerator between 2° to 8°C (36° to 46°F). Once removed from the refrigerator, Bivalirudin Injection may be stored at room temperature 20° to 25°C (68° to 77°F) for up to 72 hours.</p> <p>Avoid excess heat.</p>	<p>NDC 70511-142-50</p> <p>Bivalirudin Injection</p> <p>250 mg/50 mL (5 mg/mL)</p> <p>For Intravenous Use Only</p> <p>Ready To Use Do Not Dilute</p> <p>One Single-Dose Vial Discard Unused Portion</p> <p>MAIA Rx Only</p>	<p>Manufactured for MAIA Pharmaceuticals, Inc. Princeton, NJ 08540</p> <p>Product of India XXXXXX Rev. 03/2024</p>  <p>(01)00370511142507</p>

NDC 70511-142-84 Rx Only

Bivalirudin

Injection

250 mg/50 mL

(5 mg/mL)

For Intravenous Use Only

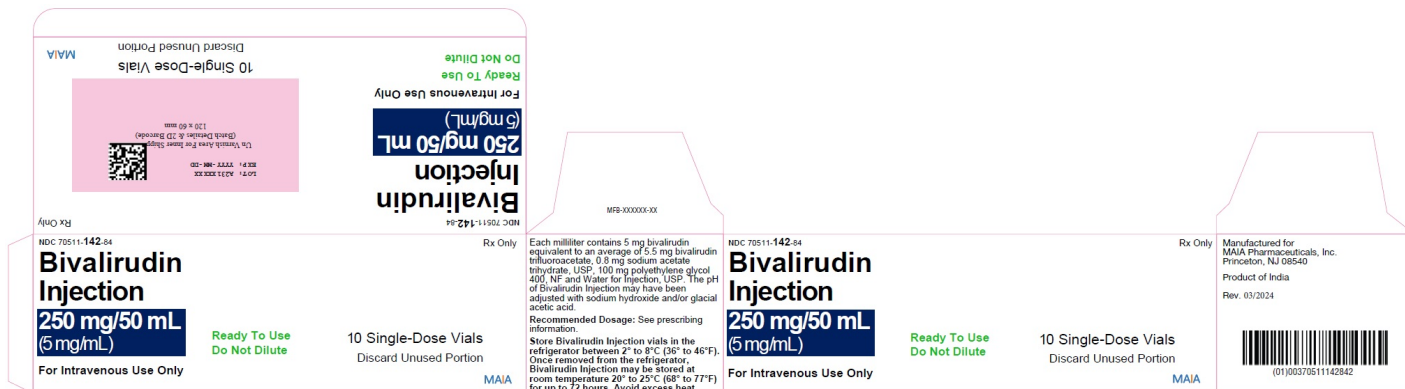
Ready to Use

Do Not Dilute

10 Single-Dose Vials

Discard Unused Portion

MAIA



BIVALIRUDIN

bivalirudin injection, solution

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:70511-142
Route of Administration	INTRAVENOUS		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
BIVALIRUDIN (UNII: TN9BEX005G) (BIVALIRUDIN - UNII:TN9BEX005G)	BIVALIRUDIN	250 mg

Inactive Ingredients

Ingredient Name	Strength
POLYETHYLENE GLYCOL 400 (UNII: B697894SGQ)	5 g
SODIUM ACETATE (UNII: 4550K0SC9B)	40 mg
WATER (UNII: 059QF0KO0R)	
SODIUM HYDROXIDE (UNII: 55X04QC32I)	
HYDROCHLORIC ACID (UNII: QTT17582CB)	
ACETIC ACID (UNII: Q40Q9N063P)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:70511-142-50	1 in 1 CARTON	05/27/2024	
1		1 in 1 VIAL, SINGLE-DOSE; Type 0: Not a Combination Product		
2	NDC:70511-142-84	10 in 1 CARTON	05/27/2024	
2		1 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
NDA	NDA211215	05/27/2024	

Labeler - MAIA Pharmaceuticals, Inc. (079211845)

Registrant - MAIA Pharmaceuticals, Inc. (079211845)

Establishment

Name	Address	ID/FEI	Business Operations
Gland Pharma Limited		918601238	MANUFACTURE(70511-142)

Revised: 5/2024

MAIA Pharmaceuticals, Inc.