

Concentrate solution for LV Tirofiban hydrochloride infusion equivalent to 0.25 mg/mL Tirofiban base

Read all of this leaflet carefully before you start taking this medicine.

- Keep this leaflet. You may need to read it again
- If you have any further questions, ask your doctor or pharmacist. • This medicine has been prescribed for you. Do not pass it on to others. It may harm them, even it
- their symptoms are the same as yours.
- If any of the side effects get serious, or if you notice any side effects not listed in this leaflet, please tell your doctor or pharmacist.

In this leaflet:

- 1. What Aggrastat is and what it is used for
- 2. Before you take Aggrastat
- 3. How to take Aggrastat
- 4. Possible side effects
- 5. How to store Aggrastat
- 6. Further information

1. What Aggrastat is and what it is used for

Aggrastat is used to help assist the blood flow to your heart and to help prevent chest pain and heart attacks. It works by preventing plate lets, cells found in the blood, from forming blood clots. This medicine may also be used in patients whose heart vessels dilated with a balloon

(percutaneous coronary intervention or PCI). This is a procedure, possibly with implantation of a small tube (stent), to improve the blood flow to the heart.

Aggrastat is intended for use with aspirin and unfractionated heparin.

2. Before you take Aggrastat

Do not use Aggrastat

- if you are allergic (hypersensitive) to tirofiban or any of the other ingredients of Aggrastat (listed Section 6 "What Aggrastat contains"
- if you are bleeding internally or have a history of bleeding internally within the last 30 days. • if you have a history of bleeding in the brain, brain tumor or abnormal blood vessels in the brain.
- if you have severe uncontrolled high blood pressure (malignant hypertension).
- if you have a low blood platelet count (thrombocytopenia) or problems with blood clotting
- if you developed thrombocytopenia if you had received treatment with Aggrastat or another medicine in the same group of drugs previously.
- if you have a history of stroke within the last 30 days or any history of stroke with bleeding.
- if you have been seriously injured or had a major operation within the last 6 weeks.
- if you have severe liver disease.

Your doctor will review your medical history to if you are at an increased risk of any side effects associated with being given this medicine.

Warnings and precautions

Talk to your doctor before using Aggrastat, if you have or have had:

- any medical problems
- cardiopulmonary resuscitation (CPR), a biopsy, or a procedure to break up kidney stones within the last 2 weeks
- been seriously injured or had a major operation within the last 3 months
- an ulcer in the stomach or intestine (duodenum) within the last 3 months
- a recent bleeding disorder (within 1 year) such as bleeding in the stomach or intestine, or blood in vour urine or stool
- recent spinal procedure

- a history or symptoms of splitting of the aorta (aortic dissection)
- uncontrolled high blood pressure (hypertension)
- an inflammation of the lining around your heart (pericarditis)
- an inflammation of the blood vessels (vasculitis) • problems with the blood vessels in the back of your eve (retina)
- treatment with medications that help to prevent or dissolve blood clots
- kidney problems
- a special intravenous line inserted under your collar bone within the last 24 hours heart failure
- very low blood pressure due to a failing heart (cardiogenic shock)
- a liver disorder
- low blood count or anemia

Other medicines and Aggrastat

In general, Aggrastat can be used with other medicines. Please tell your doctor if you are taking or have recently taken or might take any other medicines, including medicines obtained without a prescription. as some drugs may affect each other's action. It is especially important tell your doctor if you are taking other medicines that help prevent your blood from clotting such as warfarin.

Aggrastat with food and drink

Food and drink have no effect on this medicine.

Pregnancy and breastfeeding

If you are pregnant or breastfeeding, think you may be pregnant or are planning to have a baby, ask your doctor for advice before using this medicine.

Driving and using machines

Due to your disease state, you will not be able to drive or operate machinery while Aggrastat is being

Aggrastat contains sodium

This medicinal product contains approximately 189 mg of sodium per 50 ml vial which should be taken into consideration by patients on a controlled sodium diet.

3. How to take Aggrastat

Aggrastat should be prescribed by a qualified doctor who experienced in the management of heart

You have been given, or are about to be given, Aggrastat into a vein, Your doctor will decide on the appropriate dose, depending on your condition and your weight.

Use in Children

The use in children is not recommended.

If you use more Aggrastat than you should

Your dose of Aggrastat is carefully monitored and checked by your doctor and pharmacist. The most frequently reported symptom of overdose is bleeding. If you notice bleeding, you should notify your health care professional immediately.

If you forget to use Aggrastat

Your doctor will decide when to administer the dose.

If you stop using Aggrastat

Your doctor will decide when treatment should be stopped. However, if you wish to stop your treatment earlier, you should discuss other options with your doctor.

If you have any further questions on the use of this medicine, ask your doctor or pharmacist.

4. Possible side effects

Like all medicines, this medicine can cause side effects, although not everybody gets them. The most common side effect of treatment with Aggrastat is bleeding which could occur anywhere in

the body. This can become serious and may, rarely, be fatal.

If side effects occur, they may need medical attention. While using Aggrastat, if you develop any of the following symptoms, you should contact your doctor immediately:

signs of bleeding in the skull such as pain in the head, sensory impairments (visual or hearing),

difficulties in speech, numbness or problems with movement or balance

- signs of internal bleeding such as coughing up blood or blood in your urine or stool
- signs of serious allergic reactions such as difficulties in breathing and dizziness

Below is a list of side effects that have occurred in some people following treatment with Aggrastat. The side effects are listed in decreasing order of frequency.

Very common (may affect more than 1 in 10 people):

- Bleeding after surgery
- Bleeding under the skin at the site of an injection, or into a muscle, causing swelling
- Small red bruises on the skin Invisible blood in urine or stool
- Feeling sick
- Headache

Common (may affect up to 1 in 10 people):

- Blood in urine Coughing up of blood
- Nose bleeds
- · Bleeding in the gums and mouth
- Bleeding from vessel puncture site Reduction in red blood cells (reduced haematocrit and haemoglobin)
- Decreases in platelet count below 90,000/mm³

Uncommon (may affect up to 1 in 100 people):

- Bleeding in the stomach or intestines
- Vomiting of blood
- Decreases in platelet count below 50.000/mm³

Not known (frequency cannot be estimated from the available data):

- Bleeding in the skull
- Haematoma in the spinal region
- Bleeding in the abdomen of the internal organs Accumulation of blood around the heart
- Bleeding in the lung
- Acute and/or severe decreases in platelet counts below 20,000/mm³
- Severe allergic reactions with tightness of chest, hives or nettle rash, including reactions that cause difficulty in breathing and dizziness

Reporting of side effects

If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. By reporting side effects you can help provide more information on the safety of this medicine.

5. How to store Aggrastat

Keep this medicine out of the reach and sight of children.

Do not store above 30°C.

Your physician and pharmacist will know how to store and dispose of this medicine. Do not use this medicine after the expiry date which is stated on the label and outer carton after EXP.

The expiry date refers to the last day of that month. Do not freeze. Keep container in outer carton to protect from light.

Do not use this medicine if you notice there are visible particles or discolouration of the solution before

Do not throw away any medicines via wastewater or household waste. Ask your pharmacist how throw away medicines you no longer use. These measures will help protect the environment.

6. Further information What Aggrastat contains

The active substance is tirofiban hydrochloride monohydrate.

1 ml of Aggrastat contains 281 micrograms of tirofiban hydrochloride monohydrate which is equivalent to 250 micrograms tirofiban.

The other ingredients are Sodium chloride, sodium citrate dihydrate, citric acid anhydrous, water combination with clopidogrel as oral antiplatelet therapy. The efficacy of the combination of Aggrastat injection, hydrochloric acid and/or sodium hydroxide (for pH adjustment).

What Aggrastat looks like and contents of pack

Aggrastat is a clear, colourless concentrated solution available in a 50 ml Type I glass vial.

The following information is intended for healthcare professionals only:

This product is for hospital use only, by specialist physicians experienced in the management of acute coronary syndromes.

Aggrastat Concentrate must be diluted before use.

Aggrastat should be administered with unfractionated heparin and oral antiplatelet therapy, including acetylsalicylic acid (ASA).

Posology and method of administration

In patients who are managed with an early invasive strategy for Non-ST-Segment Elevation Acute Coronary Syndrome (NSTE-ACS) but not planned to undergo angiography for at least 4 hours and up to 48 hours after diagnosis, Aggrastat is given intravenously at an initial infusion rate of 0.4 microgram/ kg/min for 30 minutes. At the end of the initial infusion, Aggrastat should be continued at a maintenance infusion rate of 0.1 microgram/kg/min. Aggrastat should be given with unfractionated heparin (usually an intravenous bolus of 50-60 Units (U)/kg simultaneously with the start of Aggrastat therapy, then approx. 1000 U per hour, titrated on the basis of the activated partial thromboplastin time (APTT). which should be about twice the normal value) and oral antiplatelet therapy, including but not limited to ASA, unless contraindicated Patient 0.4 microgram/kg/min 0.4 microgram/kg/min 25 microgram/kg

In NSTE-ACS patients planned to undergo PCI within the first 4 hours of diagnosis or in patients with acute myocardial infarction intended for primary PCI, Aggrastat should be administered utilizing an initial bolus of 25 microgram/kg given over 3 minute period, followed by a continuous infusion at a rate of 0.15 microgram/kg/min for 12-24, and up to 48 hours.

Aggrastat should be administered with unfractionated heparin (dosage see above) and oral antiplatelet therapy, including but not limited to ASA, unless contraindicated. No dosage adjustment is necessary for the elderly.

Patients with severe kidney failure

In severe kidney failure (creatinine clearance < 30 ml/min) the dosage of Aggrastat should be reduced by 50%.

Paediatric population

The safety and efficacy of Aggrastat in children have not been established. No data are available.

Start and duration of Aggrastat In patients who are managed with an early invasive strategy for NSTE-ACS but not planned to undergo

angiography for at least 4 hours and up to 48 hours after diagnosis, the Aggrastat 0.4 microgram/kg/min loading dose regimen should be initiated upon diagnosis. The recommended duration of the maintenance infusion should be at least 48 hours. Infusion of Aggrastat and unfractionated heparin may be continued during coronary angiography and should be maintained for at least 12 hours and not more than 24 hours after angioplasty/atherectomy. Once a patient is clinically stable and no coronary intervention is planned by the treating physician, the infusion should be discontinued. The entire duration of treatment should not exceed 108 hours. If the patient diagnosed with NSTE-ACS and managed with an invasive strategy undergoes angiography

within 4 hours after the diagnosis, the Aggrastat 25 microgram/kg dose bolus regimen should be initiated at the start of PCI with the infusion continued for 12-24 hours and up to 48 hours. In patients with acute myocardial infarction intended for primary PCI, the bolus infusion regimen should be initiated as soon as possible after diagnosis.

Concurrent therapy (unfractionated heparin, oral antiplatelet therapy, including ASA) Treatment with unfractionated heparin is initiated with an intravenous bolus of 50-60 U/kg and then

continued with a maintenance infusion of 1000 units per hour. The heparin dosage is titrated to maintain an APTT of approximately twice the normal value. Unless contraindicated, all patients should receive oral antiplatelet agents, including but not limited to

ASA, before the start of Aggrastat. This medication should be continued at least for the duration of the infusion of Aggrastat. Most studies investigating the administration of Aggrastat as an adjunct to PCI have used ASA in

with either prasugrel or ticagrelor has not been established in randomized controlled trials. If angioplasty (PCI) is required, heparin should be stopped after PCI, and the sheaths should be withdrawn once coagulation has returned to normal, e.g. when the activated clotting time (ACT) is less than 180 seconds (usually 2-6 hours after discontinuation of heparin).

Incompatibility has been found with diazepam. Therefore, Aggrastat and diazepam should not be administered in the same intravenous line No incompatibilities have been found with Aggrastat and the following intravenous formulations:

atropine sulfate, dobutamine, dopamine, epinephrine HCl, furosemide, heparin, lidocaine. midazolam HCl, morphine sulfate, nitroglycerin, potassium chloride, propranolol HCl, and famotidine injection.

Instructions for use

AGGRASTAT Concentrate must be diluted before use:

1 Draw 50 ml from a 250 ml container of sterile 0.9 % saline or 5 % glucose in water and replace with 50 ml AGGRASTAT (from one 50 ml puncture vial) to make up a concentration of 50 microgram/ml. Mix well before use.

25 microgram/kg

2. Use according to the dosage table below.

The following table provided as a guide to dosage adjustment by weight.

Weight (kg)	Loading Dose Regimen Most Patients		Loading Dose Regimen Severe Kidney Failure		Dose Bolus Regimen Most Patients		Dose Bolus Regimen Severe Kidney Failure		
(-8)									Marketing Authorization Holder And Final Batch Releaser:
	30 min Loading Infusion Rate (ml/hr)	Maintenance Infusion Rate (ml/hr)	30 min Loading Infusion Rate (ml/hr)	Maintenance Infusion Rate (ml/hr)	Bolus (ml)	Maintenance Infusion Rate (ml/hr)	Bolus (ml)	Maintenance Infusion Rate (ml/hr)	ALGORITHM S.A.L. Zouk Mosbeh, Lebanon Manufacturer: Siegfried Hameln GmbH, Langes Feld 13, 31789 Hameln, Germany Registered Trademark of Cardiome International AG.
30-37	16		8						All rights reserved.
38-45	20		10		21		10	4	1111 1181110 10001 1001
46-54		6	12	3	25	9	13	5	
55-62		7	14	4	29	11	15	5	
63-70			16	4	33	12	17	6	
71-79	36	9		_5	38	14	19_	7	
80-87	40	10		5	<u>42</u>	15	21	8	
88-95	44	11		6	46	16	23	8	
96-104	48	12	$-\frac{24}{26}$	6	50_	18	25	9	
105-112	52	13	26	7	54	20	27	10	
113-120	56	14	28		58	21	29	10	
121-128			$-\frac{30}{32}$	8 8		<u>-22</u> 24	31	11	
129-137			32	8		24	33	12	D45770 00
138-145		17			71_		35	13	P15773-03
146-153	L	18	1		75	_	37	13	Rev. 05/2018

AGGRASTAT Concentrate must first be diluted, as noted under Instructions for Use • Where the solution and container permit, parenteral drugs should be inspected for visible

- particles or discolouration before use. • Aggrastat should only be given intravenously and may be administered with unfractionated heparin
- through the same infusion tube. • It is recommended that Aggrastat be administered with a calibrated infusion set using sterile
- Care should be taken to ensure that no prolongation of the infusion of the initial dose occurs and that miscalculation of the infusion rates for the maintenance dose on the basis of the patient's weight is avoided.

Do not use Aggrastat after the expiry date which stated on the label and outer carton after <EXP>. The

expiry date refers to the last day of that month.

Do not freeze. Keen container in outer carton in order to protect from light.

After dilution the product should be used immediately. If not used immediately, in use storage conditions would normally not be longer than 24 hours at 2-8°C.

Nature and contents of container

Aggrastat is a clear, colourless concentrated solution available in a 50 ml Type I glass vial.

Special precautions for disposal and other handling Any unused product or waste material should be disposed of in accordance with local

This is a medicament

- Medicament is a product which affects your health and its consumption contrary to instructions is dangerous for you
- Follow strictly the doctor's prescription, the method of use and the instructions of the pharmacist who sold you the medicament.
- The doctor and the pharmacist are experts in medicine, its benefits and risks. Do not by yourself interrupt the period of treatment prescribed.
- Do not repeat the same prescription without consulting your doctor.

- Keep all medicaments out of reach of children.

Council of Arab Health Ministers Union of A rab pharmacists