

AMS Component No.:	AW-LF-0001566 (v0.4)
Product Description:	Aggrastat 0.25 mg/ml - 50ml vial MY SH
Component:	Leaflet
Product Code:	105219
Country:	Malaysia
Vendor Name:	Tjoapack Netherlands B.V.
Proof Number:	0.4
Revision Date:	27-Mar-2026
Revised by:	SNK

Dimension:	148 x 620 mm
Commodity No.:	60004843-01
Pharma Code:	1902
Print Colours:	Black
Non-Print Colours:	Cutter
Min. Font Size:	8 pt

Fatal bleedings have been reported (see SIDE EFFECTS).

Femoral artery access site: AGGRASTAT is associated with minor increases in bleeding rates particularly at the site of arterial access for femoral sheath placement. Care should be taken when attempting vascular access that only the anterior wall of the femoral artery is punctured, avoiding a Seldinger (through and through) technique for obtaining sheath access. Care should be taken to obtain proper hemostasis after removal of the sheaths followed by close observation.

Laboratory Monitoring: Platelet counts, and hemoglobin and hematocrit should be monitored prior to treatment, within 6 hours following the bolus or loading infusion, and at least daily thereafter during therapy with AGGRASTAT (or more frequently if there is evidence of significant decline). In patients who have previously received GP IIb/IIIa receptor antagonists, consideration should be given to earlier monitoring of platelet count. If the patient experiences a platelet count decrease to <90,000 cells/mm³, additional platelet counts should be performed to exclude pseudothrombocytopenia. If thrombocytopenia is confirmed, AGGRASTAT and heparin should be discontinued and the condition appropriately monitored and treated.

In addition, the activated partial thromboplastin time (APTT) should be determined before treatment and the anticoagulant effects of heparin should be carefully monitored by repeated determinations of APTT and the dose should be adjusted accordingly (see also DOSAGE AND ADMINISTRATION). Potentially life-threatening bleeding may occur especially when heparin is administered with other products affecting hemostasis, such as GP IIb/IIIa receptor antagonists.

Severe Renal Insufficiency

In clinical studies, patients with severe renal insufficiency (creatinine clearance <30 mL/min) demonstrated decreased plasma clearance of AGGRASTAT. The dosage of AGGRASTAT should be reduced in these patients (see DOSAGE AND ADMINISTRATION).

VIII. PREGNANCY

There are no adequate and well-controlled studies in pregnant women. AGGRASTAT should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

IX. NURSING MOTHERS

It is not known whether AGGRASTAT is excreted in human milk. Because many drugs are excreted in human milk, and because of the potential for adverse effects on the nursing infant, a decision should be made whether to discontinue nursing or discontinue the drug, taking into account the importance of the drug to the mother.

X. PEDIATRIC USE

Safety and effectiveness in children have not been established.

XI. USE IN THE ELDERLY

In clinical studies the efficacy of AGGRASTAT in the elderly (≥65 years) was comparable to that seen in younger patients (<65 years). Elderly patients receiving AGGRASTAT with heparin or heparin alone had a higher incidence of bleeding complications than younger patients. The incremental risk of bleeding in patients treated with AGGRASTAT in combination with heparin over the risk in patients treated with heparin alone was comparable regardless of age. The overall incidence of non-bleeding adverse events was higher in older patients (compared to younger patients); however, the incidence of non-bleeding adverse events in these patients was comparable between the AGGRASTAT with heparin and the heparin alone groups. No dose adjustment is recommended (see DOSAGE AND ADMINISTRATION, *Other Patient Populations*).

XII. DRUG INTERACTIONS

AGGRASTAT has been studied on a background of aspirin and heparin.

The use of AGGRASTAT, in combination with heparin and aspirin, has been associated with an increase in bleeding compared to heparin and aspirin alone (see SIDE EFFECTS). Caution should be employed when AGGRASTAT is used with other drugs that affect hemostasis (e.g., warfarin) (see PRECAUTIONS, *Bleeding Precautions*).

AGGRASTAT has been used concomitantly in clinical studies with beta-blockers, calcium channel blockers, non-steroidal anti-inflammatory agents (NSAIDS) and nitrate preparations without evidence of clinically significant adverse interactions.

In a sub-set of patients (n=762) in the PRISM study (Platelet Receptor Inhibition for Ischemic Syndrome Management), the plasma clearance of tirofiban in patients receiving one of the following drugs was compared to that in patients not receiving that drug. There were no clinically significant interactions of these drugs on the plasma clearance of tirofiban: acebutolol, acetaminophen, alprazolam, amlodipine, aspirin preparations, atenolol, bromazepam, captopril, diazepam, digoxin, diltiazem, docusate sodium, enalapril, furosemide, glyburide, heparin, insulin, isosorbide, levothyroxine, lorazepam, lovastatin, metoclopramide, metoprolol, morphine, nifedipine, nitrate preparations, omeprazole, oxazepam, potassium chloride, propranolol, ranitidine, simvastatin, sucralfate and temazepam.

XIII. SIDE EFFECTS

The most common drug-related adverse event reported during therapy with AGGRASTAT when used concomitantly with heparin and aspirin, was bleeding (usually reported by the investigators as oozing or mild). The incidences of major and minor bleeding using the TIMI* Criteria in the PRISM PLUS (Platelet Receptor Inhibition for Ischemic Syndrome Management - Patients Limited by Unstable Signs and Symptoms) and RESTORE (Randomized Efficacy Study of Tirofiban for Outcomes and Restenosis) studies are shown below:

	PRISM PLUS [†] (UAP/Non-Q-Wave MI Study)		RESTORE [‡] (Angioplasty/Atherectomy Study)	
Bleeding	AGGRASTAT+ Heparin (n=797) %	Heparin (n=773) %	AGGRASTAT+ Heparin (n=1071) %	Heparin (n=1070) %
Major Bleeding (TIMI Criteria) [‡]	1.4	0.8	2.2	1.6
Minor Bleeding (TIMI Criteria) [§]	10.5	8.0	12.0	6.3
Transfusions	4.0	2.8	4.3	2.5

[†] Patients received aspirin unless contraindicated.
[‡] Hemoglobin drop of >50 g/L with or without an identified site, intracranial hemorrhage, or cardiac tamponade.
[§] Hemoglobin drop of >30 g/L with bleeding from a known site, spontaneous gross hematuria, hematemesis or hemoptysis.

There were no reports of intracranial bleeding in the PRISM PLUS study for AGGRASTAT in combination with heparin or in the control group (which received heparin). The incidence of intracranial bleeding in the RESTORE study was 0.1% for AGGRASTAT in combination with heparin and 0.3% for the control group (which received heparin). In the PRISM PLUS study, the incidences of retroperitoneal bleeding reported for AGGRASTAT in combination with heparin, and for the control group were 0.0% and 0.1%, respectively. In the RESTORE study, the incidences of retroperitoneal bleeding reported for AGGRASTAT in combination with heparin, and the control group were 0.6% and 0.3%, respectively.

Female patients and elderly patients receiving AGGRASTAT with heparin or heparin alone had a higher incidence of bleeding complications than male patients or younger patients, respectively. The incremental risk of bleeding in patients treated with AGGRASTAT in combination with heparin over the risk in patients treated with heparin alone was comparable regardless of age or gender. No dose adjustment is recommended for these populations (see DOSAGE AND ADMINISTRATION, *Other Patient Populations*).

Patients treated with AGGRASTAT, with heparin, were more likely to experience decreases in platelet counts than the control group. These decreases were reversible upon discontinuation of AGGRASTAT. The percentage of patients with

a decrease of platelets to <90,000 cells/mm³ was 1.5%. The percentage of patients with a decrease of platelets to <50,000 cells/mm³ was 0.3%. Platelet decreases have been observed in patients with no prior history of thrombocytopenia upon readministration of GP IIb/IIIa receptor antagonists.

The most frequent drug-related non-bleeding side effects reported with AGGRASTAT, administered concomitantly with heparin, occurring at an incidence of >1% were nausea (1.7%), fever (1.5%), and headache (1.1%); nausea, fever and headache occurred at an incidence of 1.4%, 1.1% and 1.2%, respectively, in the control group.

In clinical studies, the incidences of adverse events were generally similar among different races, patients with or without hypertension, patients with or without diabetes mellitus, and patients with or without hypercholesterolemia.

The overall incidence of non-bleeding adverse events was higher in female patients (compared to male patients) and older patients (compared to younger patients). However, the incidences of non-bleeding adverse events in these patients were comparable between the AGGRASTAT with heparin and the heparin alone groups. (See above for bleeding adverse events.)

The following additional adverse reactions have been reported in post-marketing experience:

Bleeding: intracranial bleeding, retroperitoneal bleeding, hemopericardium, pulmonary (alveolar) hemorrhage and spinal-epidural hematoma. Fatal bleedings have been reported rarely; **Body as a Whole:** Acute and/ or severe decreases in platelet counts which may be associated with chills, low-grade fever, or bleeding complications (see above); **Hypersensitivity:** Severe allergic reactions including anaphylactic reactions. The reported cases have occurred during the first day of tirofiban infusion, during initial treatment, and during readministration of tirofiban. Some cases have been associated with severe thrombocytopenia (platelet counts < 10,000/mm³).

XIIIa. Laboratory Test Findings

The most frequently observed laboratory adverse events in patients receiving AGGRASTAT concomitantly with heparin were related to bleeding. Decreases in hemoglobin and hematocrit, and platelet count were observed. Increases in the presence of urine and fecal occult blood were also observed.

XIV. OVERDOSAGE

In clinical trials, inadvertent overdosage with tirofiban occurred in doses up to 5 times and 2 times the recommended dose for bolus administration and loading infusion, respectively. Inadvertent overdosage occurred in doses up to 9.8 times the 0.15 µg/kg/min maintenance infusion rate.

The most frequently reported manifestation of overdosage was bleeding, primarily minor mucocutaneous bleeding events and minor bleeding at the sites of cardiac catheterization (see PRECAUTIONS, *Bleeding Precautions*).

Overdosage of tirofiban should be treated by assessment of the patient's clinical condition and cessation or adjustment of the drug infusion as appropriate.

AGGRASTAT can be removed by hemodialysis.

XV. STORAGE

Concentrate for Infusion
Store below 30°C. Do not freeze. Protect from light during storage.

XVI. AVAILABILITY

AGGRASTAT is available in a concentrated solution for dilution (50 mL vials).

PRODUCT DESCRIPTION

AGGRASTAT is a clear, colorless solution.

SHELF LIFE

Please refer to the expiry date on the outer carton.

MANUFACTURER:

Siegfried Hameln GmbH
Langes Feld 13
31789 Hameln
Germany

REPACKER:

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IMPORTED BY:

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* Bovill, E.G.; et al: Hemorrhagic Events during Therapy with Recombinant Tissue-Type Plasminogen Activator, Heparin, and Aspirin for Acute Myocardial Infarction, Results of the Thrombolysis in Myocardial Infarction (TIMI), Phase II Trial, Annals of Internal Medicine, 115(4): 256-265, 1991.