

**Product Name:** GR 144053 trihydrochloride

**Catalog No.:** 1263

**Batch No.:** 2

CAS Number: 1215333-48-4

IUPAC Name: 4-[4-[4-(Aminoiminomethyl)phenyl]-1-piperaziny]-1-piperidineacetic acid trihydrochloride

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:**  $C_{18}H_{27}N_5O_2 \cdot 3HCl \cdot 3H_2O$

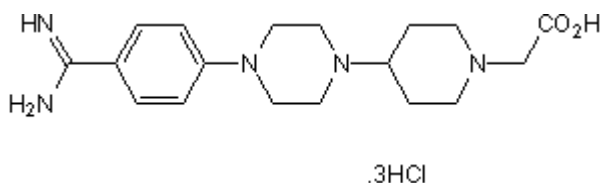
**Batch Molecular Weight:** 508.87

**Physical Appearance:** Tan solid

**Solubility:** water to 100 mM

**Storage:** Desiccate at +4°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:**  $R_f = 0.15$  (Pyridine:Acetic acid:Water:Butanol [3:8:11:14])

**Melting Point:** At 209°C(dec)

**HPLC:** Shows >99.3% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	42.49	7.13	13.76
Found	42.26	6.75	13.37

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**Description:**

A potent and selective platelet fibrinogen receptor glycoprotein IIb/IIIa (GpIIb/IIIa) antagonist (IC<sub>50</sub> = 37 nM). Orally active and highly effective at inhibiting thrombus formation in vivo.

**Physical and Chemical Properties:**

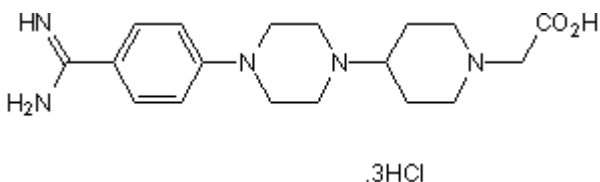
Batch Molecular Formula: C<sub>18</sub>H<sub>27</sub>N<sub>5</sub>O<sub>2</sub>.3HCl.3H<sub>2</sub>O

Batch Molecular Weight: 508.87

Physical Appearance: Tan solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Desiccate at +4°C

**Solubility & Usage Info:**

water to 100 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Eldred et al** (1994) Orally active non-peptide fibrinogen receptor (GpIIb/IIIa) antagonists: identification of 4-[4-[4-(aminoiminomethyl)phenyl]-1-piperazinyl]-1-piperidineacetic acid as a long-acting, broad spectrum antithrombotic agent. *J.Med.Chem.* **37** 3882. PMID: 7966149.

**Matsuno et al** (1997) GR 144053, a fibrinogen receptor antagonist, enhances the suppression of neointima formation by losartan, an angiotensin II receptor antagonist, in the injured carotid artery of hamster. *Br.J.Pharmacol.* **122** 1099. PMID: 9480031.

**Matsuno et al** (1999) Comparative antiplatelet effects of aspirin, vapiprost and GR 144053, a GPIIb/IIIa antagonist with special reference to the role of platelet microaggregates. *Br.J.Pharmacol.* **127** 1129. PMID: 10455258.

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USA & CANADA Tel: (800) 343-7475 EUROPE Tel: +44 (0)1235 529449 CHINA Tel: +86 (21) 52380373

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