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Product Information

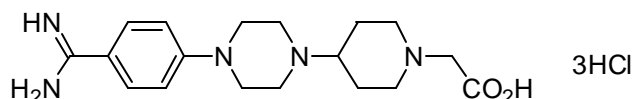
GR 144053 trihydrochloride hydrate

Product Number **G6418**

Storage Temperature 2-8 °C

Cas #: 201304-22-5 (related)

Synonyms: 4-[4-[4-(Aminoiminomethyl)phenyl]-1-piperazinyl]-1-piperidineacetic acid trihydrochloride hydrate



Product Description

Molecular Formula: C₁₈H₂₇N₅O₂·3HCl·xH₂O

Molecular Weight: 454.82

GR 144053 is a potent and selective, non-peptide antagonist of platelet fibrinogen receptor glycoprotein IIb/IIIa (GpIIb/IIIa).^{1, 2} It acts as a mimetic of the peptide RGD-sequence which is a potent inhibitor of GPIIb-IIIa. Binding of GR 144053 to GPIIb-IIIa competitively blocks the binding of its normal ligand, fibrinogen, and alters signaling properties of the heterodimer. GR 144053 attenuates platelet aggregation, activation, and degranulation both *in vivo* and *in vitro*.

GR 144053 is a useful tool for the study of mechanisms in platelet activation and degranulation events.

Reagent

GR 144053 is supplied as a solid.

Purity: >98% (HPLC)

Precautions and Disclaimer

For R&D use only. Not for drug, household, or other uses.

Caution - Substance not yet fully tested. Consult the MSDS for information regarding hazards and safe handling practices.

Preparation Instructions

GR 144053 is soluble in dimethyl sulfoxide (DMSO) at ~23 mg/mL.

Storage/Stability

Store at 2-8 °C.

References

1. Matsuno, H., et al., Inhibitors of fibrinolytic components play different roles in the formation and removal of arterial thrombus in mice. *J. Cardiovasc. Pharmacol.*, **39**, 278-286 (2002).
2. Rozalski, M., et al., Effects of fibrinogen receptor antagonist GR144053F and aurointricarboxylic acid on platelet activation and degranulation. *Biochem. Pharmacol.*, **62**, 1399-1408 (2001).

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