Data Sheet (Cat.No.TP2098)

TargetMol

Echistatin

Chemical Properties

CAS No. :	154303-05-6
Formula:	C217H341N71O74S9
Molecular Weight:	5417.1
Appearance:	no data available
Storage:	keep away from moisture Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Potent irreversible αVβ3 integrin antagonist (Ki = 0.27 nM). Disrupts attachment of osteoclasts to bone and inhibits bone reabsorption (IC50 = 0.1 nM). Prevents ADP-induced platelet aggregation via inhibition of glycoprotein IIb/IIIa (GpIIb/IIIa, αIIbβ3) receptors (IC50 = 30 nM) in vitro.

Solubility Information

Solubility	H2O: 1 mg/mL (0.18 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.1846 mL	0.923 mL	1.846 mL
5 mM	0.0369 mL	0.1846 mL	0.3692 mL
10 mM	0.0185 mL	0.0923 mL	0.1846 mL
50 mM	0.0037 mL	0.0185 mL	0.0369 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Musial et al (1990) Inhibition of platelet adhesion to surfaces of extracorporeal circuits by disintegrins RGD-containing peptides from viper venoms. Circulation 82 261 PMID:

Sato et al (1990) Echistatin is a potent inhibitor of bone resorption in culture. J.Cell.Biol. 111 1713 PMID:

Kumar et al (1997) Biochemical characteriation of the binding of echistatin to integrin αVβ3 receptor. J.Pharmacol. Exp.Ther. 283 843 PMID:

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