

Echistatin

Chemical Properties

CAS No. :	154303-05-6
Formula:	C ₂₁ H ₃₄ N ₇ O ₇ S ₉
Molecular Weight:	5417.1
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>

ECESGPCORNCKFLKEGTICKRARGGDDDDOYCNKTKDCPRNPHKGPAT
(Disulfide bridge C₁₉-C₁₁; C₁₈-C₁₂; C₁₇-C₁₃; C₁₆-C₁₄)

Biological Description

Description	Potent irreversible α V β 3 integrin antagonist (K _i = 0.27 nM). Disrupts attachment of osteoclasts to bone and inhibits bone reabsorption (IC ₅₀ = 0.1 nM). Prevents ADP-induced platelet aggregation via inhibition of glycoprotein IIb/IIIa (GpIIb/IIIa, α IIb β 3) receptors (IC ₅₀ = 30 nM) in vitro.
Targets(IC ₅₀)	Integrin

Solubility Information

Solubility	H ₂ O: 1 mg/mL (0.18 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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 $\alpha\text{V}\beta\text{3}$ receptor. J.Pharmacol. Exp.Ther. 283 843 PMID:

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