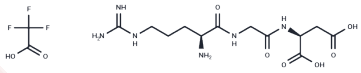
Data Sheet (Cat.No.TP1343)

TargetMol

RGD Trifluoroacetate

Chemical Properties



CAS No. : 2378808-45-6

Formula: C14H23F3N6O8

Molecular Weight: 460.367

Storage: Keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	RGD Trifluoroacetate is a tripeptide that effectively triggers cell adhesion, targets specific cell lines, and elicits particular cell responses by binding to integrins. It is the most effective and frequently used peptide sequence for stimulated cell adhesion on synthetic surfaces. Among the 24 integrins that bind to ECM molecules in an RGD-dependent manner are α3β1, α5β1, α8β1, αIIbβ3, αvβ1, αvβ3, αvβ5, αvβ6, αvβ8, and to some extent α2β1 and α4β1.
Targets(IC50)	Integrin

Solubility Information

Solubility	H2O: 60.00 mg/mL (130.33 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1722 mL	10.8608 mL	21.7217 mL
5 mM	0.4344 mL	2.1722 mL	4.3443 mL
10 mM	0.2172 mL	1.0861 mL	2.1722 mL
50 mM	0.0434 mL	0.2172 mL	0.4344 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

Hersel U, et al. RGD modified polymers: biomaterials for stimulated cell adhesion and beyond. Biomaterials. 2003 Nov;24(24):4385-415.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481