Data Sheet (Cat.No.TP1961)

TargetMol

PR-39

Chemical Properties

CAS No. : 139637-11-9

Formula: C229H346N70O40

Molecular Weight: 4719.7

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	Antibacterial peptide. Stimulates angiogenesis and inhibits inflammatory responses by selectively blocking proteasome degradation of IκBα.
Targets(IC50)	Proteasome,Antibacterial

Solubility Information

Solubility	H2O: 1 mg/mL (0.21 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2119 mL	1.0594 mL	2.1188 mL
5 mM	0.0424 mL	0.2119 mL	0.4238 mL
10 mM	0.0212 mL	0.1059 mL	0.2119 mL
50 mM	0.0042 mL	0.0212 mL	0.0424 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

Gaczynska et al (2003) Proline and arginine-rich peptides constitute a novel class of allosteric inhibitors of proteasome activity. Biochemistry 42 8663 PMID:

Gao et al (2000) Inhibition of ubiquitin-proteasome pathway-mediated IκBα degradation by a naturally occuring antibacterial peptide. J.Clin.Invest. 106 439 PMID:

Li et al (2000) PR39, a peptide regulator of angiogenesis. Nat.Med. 6 356 PMID:

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