

Apstatin TFA

Chemical Properties

CAS No. :

Formula: C₂₅H₃₄F₃N₅O₇

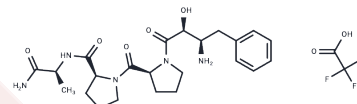
Molecular Weight: 573.56

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	Apstatin TFA is a potent, selective aminopeptidase P (APP) inhibitor (K _i =0.64 μM). It exerts cardioprotective effects by increasing local bradykinin levels.
Targets(IC ₅₀)	Aminopeptidase
In vivo	Apstatin TFA (i.v.) significantly reduced infarct size in rat myocardial ischemia-reperfusion models via bradykinin B ₂ receptor activation[1].

Solubility Information

Solubility	DMSO: 100 mg/mL (174.35 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	1.7435 mL	8.7175 mL	17.435 mL
5 mM	0.3487 mL	1.7435 mL	3.487 mL
10 mM	0.1743 mL	0.8717 mL	1.7435 mL
50 mM	0.0349 mL	0.1743 mL	0.3487 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

Schnorenberg MR, et, al. Synthesis and Purification of Homogeneous Lipid-Based Peptide Nanocarriers by Overcoming Phospholipid Ester Hydrolysis. ACS Omega. 2018 Oct 31;3(10):14144-14150.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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