

PR-39 TFA

Chemical Properties

CAS No. :

Formula: C231H347F3N70O42

Molecular Weight: 4833.76

Keep away from moisture

Storage: 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	PR-39 TFA, a natural peptide rich in proline and arginine with antibacterial properties, acts as a noncompetitive, reversible, and allosteric inhibitor of the proteasome. It specifically attaches to the $\alpha 7$ subunit of the proteasome, preventing the degradation of the NF- κ B inhibitor I κ B α through the ubiquitin-proteasome pathway. Additionally, PR-39 TFA promotes angiogenesis, suppresses inflammatory responses, and notably decreases myocardial infarct size in mice [1] [2].
Targets(IC50)	Proteasome,Antibacterial

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2069 mL	1.0344 mL	2.0688 mL
5 mM	0.0414 mL	0.2069 mL	0.4138 mL
10 mM	0.0207 mL	0.1034 mL	0.2069 mL
50 mM	0.0041 mL	0.0207 mL	0.0414 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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