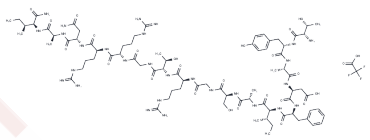
Data Sheet (Cat.No.T75888)

TargetMol

PKA Inhibitor Fragment (6-22) amide TFA

Chemical Properties



CAS No. :

Formula: C82H131F3N28O26

Molecular Weight: 1982.08

Storage: Keep away from direct sunlight,Keep away from moisture,Store under nitrogen,Store at low temperature
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	PKA Inhibitor Fragment (6-22) amide TFA (PKA Inhibitor Fragment (6-22) amide TFA) is a highly potent inhibitor of cAMP-dependent protein kinase A (PKA) with a Ki of 2.8 nM and reverses the pain-relieving effects of low levels of morphine in mice.
Targets(IC50)	PKA

Solubility Information

Solubility	H2O: 40 mg/mL (20.18 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.5045 mL	2.5226 mL	5.0452 mL
5 mM	0.1009 mL	0.5045 mL	1.009 mL
10 mM	0.0505 mL	0.2523 mL	0.5045 mL
50 mM	0.0101 mL	0.0505 mL	0.1009 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

Dalton GD, et al. Alterations in brain Protein Kinase A activity and reversal of morphine tolerance by two fragments of native Protein Kinase A inhibitor peptide (PKI). Neuropharmacology. 2005 Apr; 48(5): 648-57.
Katz BM, et, al. Synthesis, characterization and inhibitory activities of (4-N3[3,5-3H]Phe10)PKI(6-22)amide and its precursors: photoaffinity labeling peptides for the active site of cyclic AMP-dependent protein kinase. Int J Pept Protein Res. 1989 Jun;33(6):439-45.

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