

cyclo(RLsKDK) TFA

Chemical Properties

CAS No. :

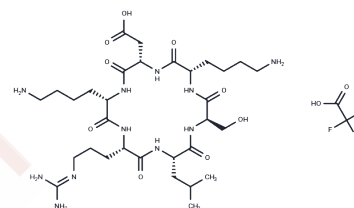
Formula: C33H58F3N11O11

Molecular Weight: 841.88

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	Cyclo(RLsKDK) TFA (BK-1361 TFA) is a cyclic peptide and selective ADAM8 metalloproteinase inhibitor, used in research on inflammation and cancer.
Targets(IC50)	MMP, Immunology/Inflammation related
In vitro	cyclo(RLsKDK) TFA promoted ADAM8 inhibition and CD23 shedding with IC50 values of 120 nM and 182 nM, respectively. cyclo(RLsKDK) TFA (200 nM, 0-12h) increased the activity of pro-ADAM8 [2]. cyclo(RLsKDK) TFA (200 nM/500 nM, 12 h) promoted the growth of Panc1_ctrl and Panc1_A8 cells. cyclo(RLsKDK) TFA (500 nM) causes ERK1/2 phosphorylation in Panc1_ctrl and Panc1_A8 cells. [1]
In vivo	cyclo(RLsKDK) TFA (10 µg/g once a week for 4 weeks) significantly reduced tumor volume in mice xenografted with Panc1_ctrl and Panc1_A8. [1]

Solubility Information

Solubility	H2O: 80 mg/mL (95.03 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	1.1878 mL	5.9391 mL	11.8782 mL
5 mM	0.2376 mL	1.1878 mL	2.3756 mL
10 mM	0.1188 mL	0.5939 mL	1.1878 mL
50 mM	0.0238 mL	0.1188 mL	0.2376 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

Schlomann U, et al. ADAM8 as a drug target in pancreatic cancer. *Nat Commun.* 2015 Jan 28;6:6175.

Yim V, et al. Synthesis and biological evaluation of analogues of the potent ADAM8 inhibitor cyclo(RLsKDK) for the treatment of inflammatory diseases and cancer metastasis. *Bioorg Med Chem.* 2016 Sep 15;24(18):4032-4037.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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