

Crosstide TFA(171783-05-4 free base)

Chemical Properties

CAS No. :

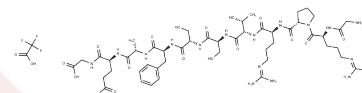
Formula: C50H78F3N17O19

Molecular Weight: 1278.25

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	Crosstide is a peptide analog of glycogen synthase kinase α/β fusion protein sequence which is a substrate for Akt.
Targets(IC50)	Others
In vitro	16HBE14o? cells exposed to RV39 demonstrate a crosstide kinase activity in vitro. Serine phosphorylation of crosstide is confirmed by immunoblotting, and phosphorylation is blocked by PP2 but not by PP3[1]. The wildtype GST-AKT2 shows significant phosphoryl transferase activity towards crosstide, reaching an initial velocity of 16 pmol phosphate/min/ μ g enzyme. The mutant GST-AKT2T/E,S/D displayed an initial velocity of 85 pmol phosphate/min/ μ g kinase for phosphorylation of Crosstide, corresponding to a 5-fold increase compared to the wildtype enzyme[2].

Solubility Information

Solubility	H2O: 50 mg/mL (39.12 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	0.7823 mL	3.9116 mL	7.8232 mL
5 mM	0.1565 mL	0.7823 mL	1.5646 mL
10 mM	0.0782 mL	0.3912 mL	0.7823 mL
50 mM	0.0156 mL	0.0782 mL	0.1565 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

- Bentley JK, et al. Rhinovirus activates interleukin-8 expression via a Src/p110beta phosphatidylinositol 3-kinase/Akt pathway in human airway epithelial cells. *J Virol.* 2007 Feb;81(3):1186-94. Epub 2006 Nov 22.
- Baer K, et al. Activation of a GST-tagged AKT2/PKBbeta. *Biochim Biophys Acta.* 2005 Oct 10;1725(3):340-7. Epub 2005 Apr 20.

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