

Crosstide

Chemical Properties

CAS No.:	171783-05-4
Formula:	C ₄₈ H ₇₇ N ₁₇ O ₁₇
Molecular Weight:	1164.23
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Crosstide is a peptide analog of glycogen synthase kinase-3 (GSK-3) that functions as a natural substrate for Akt/PKB.
In vitro	16HBE14o- cells exposed to RV39 demonstrate a crosstide k _{ise} 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/μg enzyme. The mutant GST-AKT2T/E,S/D displayed an initial velocity of 85 pmol phosphate/min/μg k _{ise} for phosphorylation of Crosstide, corresponding to a 5-fold increase compared to the wildtype enzyme[2].

Solubility Information

Solubility	H ₂ O: 50 mg/mL (42.95 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.859 mL	4.295 mL	8.589 mL
5 mM	0.172 mL	0.859 mL	1.718 mL
10 mM	0.086 mL	0.429 mL	0.859 mL
50 mM	0.017 mL	0.086 mL	0.172 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. 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.

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