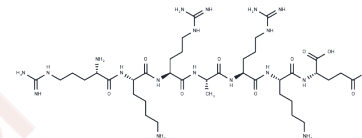


PKG inhibitor peptide

Chemical Properties

CAS No. :	82801-73-8
Formula:	C38H74N18O10
Molecular Weight:	943.12
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Competitive inhibitor of cGMP-dependent protein kinase (PKG); analog of a substrate peptide corresponding to a phosphorylation site of histone H2B. Competes with synthetic substrates (K _i = 86 mM) but does not inhibit phosphorylation of intact histones by PKG. Inhibits phosphorylation of intact histones by PKA.
Targets(IC50)	PKA

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.0603 mL	5.3016 mL	10.6031 mL
5 mM	0.2121 mL	1.0603 mL	2.1206 mL
10 mM	0.106 mL	0.5302 mL	1.0603 mL
50 mM	0.0212 mL	0.106 mL	0.2121 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

Bhatnagar et al (1988) Synthetic peptide analogues differentially alter the binding affinities of cyclic nucleotide dependent protein kinases for nucleotide substrates. *Biochemistry* 27 1988 PMID:

Glass (1983) Differential responses of cyclic GMP-dependent and cyclic AMP-dependent protein kinases to synthetic peptide inhibitors. *Biochem.J.* 213 159 PMID:

Glass et al (1986) Differential and common recognition of the catalytic sites of the cGMP-dependent and cAMP-dependent protein kinases by inhibitory peptides derived from the heat-stable inhibitor protein. *J.Biol.Chem.* 261 12166 PMID:

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481