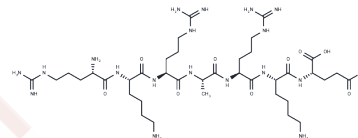


PKG inhibitor peptide

Chemical Properties

| | |
|-------------------|--|
| CAS No. : | 82801-73-8 |
| Formula: | C38H74N18O10 |
| Molecular Weight: | 943.12 |
| Appearance: | no data available |
| Storage: | keep away from moisture |
| | Powder: -20°C for 3 years In solvent: -80°C for 1 year |



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 ($K_i = 86 \text{ mM}$) but does not inhibit phosphorylation of intact histones by PKG. Inhibits phosphorylation of intact histones by 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.

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:

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481