

PKA Inhibitor (5-24) (trifluoroacetate salt)

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	PKI PKA Inhibitor (5-24) is a synthetic peptide inhibitor of PKA (cAMP-dependent protein kinase) ($K_i = 2.3$ nM) derived from the active site of the skeletal muscle inhibitor protein.1It mimics the protein substrate by binding to the catalytic site through the arginine-cluster basic subsite.1The prominent enzyme-substrate interaction site occurs where PKA catalytic subunit residues Tyr235and Phe239form a sandwich-like structure with residue Phe10of PKI (5-24).2
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Solubility Information

Solubility	DMSO: 1 mg/mL PBS (pH 7.2): 2 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Reference

Cheng, H.C., Kemp, B.E., Pearson, R.B., et al.A potent synthetic peptide inhibitor of the cAMP-dependent protein kinaseThe Journal of Biological Chemistry261(3)989-992(1986)

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