

PKA Inhibitor (5-24) (trifluoroacetate salt)

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

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	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
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 1 mg/mL,Sonication is recommended. PBS (pH 7.2): 2 mg/mL,Sonication is recommended. (< 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)

Bossemeyer, D., Engh, R.A., Kinzel, V., et al.Phosphotransferase and substrate binding mechanism of the cAMP-dependent protein kinase catalytic subunit from porcine heart as deduced from the 2.0 ? structure of the complex with Mn²⁺ adenylyl imidodiphosphate and inhibitor peptide PKI(5-24)EMBO Journal12(3)849-859(1993)

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