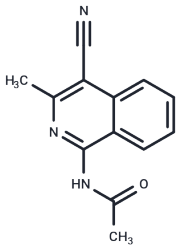
Data Sheet (Cat.No.T39217)

PKA-IN-1

Chemical Properties



CAS No. : 179985-52-5

Formula: C13H11N3O

Molecular Weight: 225.25

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	PKA-IN-1 is a selective and potent cyclic AMP-dependent protein kinase (PKA) catalytic subunit (cAK) inhibitor (IC50: 0.03 μM).PKA-IN-1 can be used to study diseases of the immune system.
Targets(IC50)	PKA

Solubility Information

Solubility	DMSO: 50 mg/mL (221.98 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn oil: < 5 mg/mL (22.2 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: < 5 mg/mL (22.2 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% (20% SBE-β-CD in Saline): < 5 mg/mL (22.2 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% Corn Oil: 2.5 mg/mL (11.1 mM),Sonication is recommended. 10% DMSO+90% Saline: < 5 mg/mL (22.2 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.4395 mL	22.1976 mL	44.3951 mL
5 mM	0.8879 mL	4.4395 mL	8.879 mL
10 mM	0.444 mL	2.2198 mL	4.4395 mL
50 mM	0.0888 mL	0.444 mL	0.8879 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

Z X Lu, et al. Selective inhibition of cyclic AMP-dependent protein kinase by isoquinoline derivative. Biol Chem Hoppe Seyler. 1996 Jun;377(6):373-8