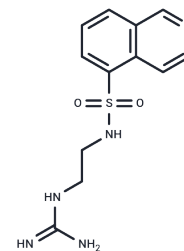


HA-1004

Chemical Properties

CAS No. : 91742-10-8
 Formula: C₁₂H₁₅N₅O₂S
 Molecular Weight: 293.34
 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	HA-1004 is a inhibitor of PKG, PKA, PKC and MLC.
Targets(IC50)	ERK,cGAS,PKA,PKC,Serine/threonin kinase
In vitro	HA-100 inhibits MLC-kinase and PKC competitively with respect to ATP, with Kis of 61 and 6.5 μM, respectively [2].

Solubility Information

Solubility	DMSO: 11 mg/mL (37.5 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (3.41 mM),Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.409 mL	17.0451 mL	34.0901 mL
5 mM	0.6818 mL	3.409 mL	6.818 mL
10 mM	0.3409 mL	1.7045 mL	3.409 mL
50 mM	0.0682 mL	0.3409 mL	0.6818 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

Junying Yu, et al. Efficient feeder-free episomal reprogramming with small molecules. PLoS One. 2011 Mar 1;6(3): e17557.

M Hagiwara, et al. Selective modulation of calcium-dependent myosin phosphorylation by novel protein kinase inhibitors, isoquinolinesulfonamide derivatives. Mol Pharmacol. 1987 Jul;32(1):7-12.

P Almela, et al. Cross-talk between protein kinase A and mitogen-activated protein kinases signalling in the adaptive changes observed during morphine withdrawal in the heart. J Pharmacol Exp Ther. 2009 Sep;330(3):771-82.

Franz Varga, et al. Osteocalcin attenuates T3- and increases vitamin D3-induced expression of MMP-13 in mouse osteoblasts. Endocr J. 2009;56(3):441-50.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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