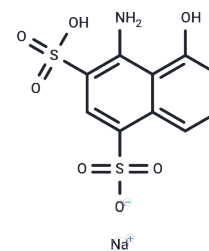


CaMKP Inhibitor

Chemical Properties

CAS No. :	52789-62-5
Formula:	C ₁₀ H ₈ NNaO ₇ S ₂
Molecular Weight:	341.28
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	CaMKP Inhibitor can inhibit CaMKP.
Targets(IC50)	CaMK, Phosphatase
Kinase Assay	Biacore study: Competition assay is performed on a Biacore S51. A Series S Sensor chip CM5 is utilized for the immobilization of a PentaHis antibody for capture of the His-tagged p53. The level of capture is ~200 response units (1 response unit corresponds to 1 pg of protein per mm ²). The concentration of MDM2 protein is kept constant at 300 nM. Nutlin-3 is dissolved in DMSO at 10 mM and further diluted to make a concentration series of Nutlin-3 in each MDM2 test sample. The assay is run at 25°C in running buffer (10 mM HEPES, 0.15 M NaCl, 2% DMSO). MDM2-p53 binding in the presence of Nutlin-3 is calculated as a percentage of binding in the absence of Nutlin-3 and IC50 is calculated

Solubility Information

Solubility	H ₂ O: 34.48 mg/mL (101.03 mM), Sonication is recommended. DMSO: 10 mM, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9301 mL	14.6507 mL	29.3015 mL
5 mM	0.586 mL	2.9301 mL	5.8603 mL
10 mM	0.293 mL	1.4651 mL	2.9301 mL
50 mM	0.0586 mL	0.293 mL	0.586 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

Nishizawa, E., Wynalda, D., & Lednicer, D. (1973). NON-THROMBOGENIC SURFACE INHIBITING PLATELET ADHERENCE. *ASAIO Journal*, 19(1), 13-18. doi: 10.1097/00002480-197301900-00003

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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