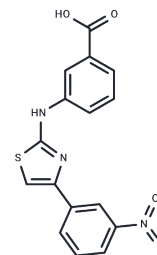


CK2 α -IN-1

Chemical Properties

CAS No. :	443747-52-2
Formula:	C ₁₆ H ₁₁ N ₃ O ₄ S
Molecular Weight:	341.34
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	CK2 α -IN-1 is a selective non-ATP-competitive CK2 α inhibitor with an IC ₅₀ of 7.0 μ M and a K _i of 1.6 μ M. CK2 α -IN-1 exhibits potential anticancer activity and can be used in cancer research.
Targets(IC ₅₀)	Casein Kinase

Solubility Information

Solubility	DMSO: 55 mg/mL (161.13 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2.5 mg/mL (7.32 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	2.9296 mL	14.6482 mL	29.2963 mL
5 mM	0.5859 mL	2.9296 mL	5.8593 mL
10 mM	0.293 mL	1.4648 mL	2.9296 mL
50 mM	0.0586 mL	0.293 mL	0.5859 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

Bestgen B, et al. 2-Aminothiazole Derivatives as Selective Allosteric Modulators of the Protein Kinase CK2. Identification of an Allosteric Binding Site. J Med Chem. 2019 Feb 28;62(4):1803-1816.

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