

SGC-CK2-1

Chemical Properties

CAS No. : 2470424-39-4

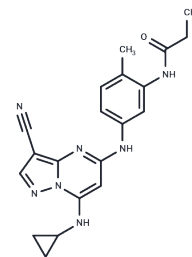
Formula: C₂₀H₂₁N₇O

Molecular Weight: 375.43

Store at low temperature

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	SGC-CK2-1 is a highly specific inhibitor of CK2, a inducer of insulin production and secretion in pancreatic β -cells, and can be used in the study of neurodegenerative diseases.
Targets(IC50)	Casein Kinase
In vitro	SGC-CK2-1 is a selective inhibitor with IC ₅₀ values of 2.3 nM and 4.2 nM for CSNK2A2 and CSNK2A1, respectively, and an IC ₅₀ value of 3.7 μ M for DYRK2[1].

Solubility Information

Solubility	DMSO: 80 mg/mL (213.09 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: 3.3 mg/mL (8.79 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	2.6636 mL	13.3181 mL	26.6361 mL
5 mM	0.5327 mL	2.6636 mL	5.3272 mL
10 mM	0.2664 mL	1.3318 mL	2.6636 mL
50 mM	0.0533 mL	0.2664 mL	0.5327 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

Carrow I Wells, et al. Development of a potent and selective chemical probe for the pleiotropic kinase CK2. Cell Chem Biol. 2021 Apr 15;28(4):546-558.e10.

Marco P Licciardello, et al. A New Chemical Probe Challenges the Broad Cancer Essentiality of CK2. Trends Pharmacol Sci. 2021 May;42(5):313-315.

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