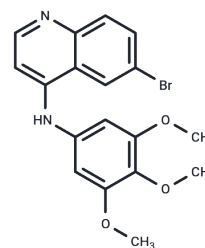


SGC-GAK-1

Chemical Properties

CAS No. :	2226517-76-4
Formula:	C ₁₈ H ₁₇ BrN ₂ O ₃
Molecular Weight:	389.24
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-GAK-1 is a selective cyclin G-associated kinase (GAK) inhibitor (K _i : 3.1 nM).
Targets(IC ₅₀)	Serine/threonin kinase
In vitro	SGC-GAK-1 potently binds GAK (K _i : 3.1 nM; K _d : 1.9 nM). SGC-GAK-1 showed strong growth inhibition in LNCaP, VCaP, and 22Rv1 cells at 10 μM, but the minimal effect in PC3 and DU145 cells. In dose-response SGC-GAK-1 showed potent antiproliferative activity in LNCaP and 22Rv1 cells at a similar dose range that it engages GAK.

Solubility Information

Solubility	Ethanol: 15 mg/mL (38.54 mM),Sonication is recommended. DMSO: 55 mg/mL (141.3 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: 2 mg/mL (5.14 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	2.5691 mL	12.8455 mL	25.6911 mL
5 mM	0.5138 mL	2.5691 mL	5.1382 mL
10 mM	0.2569 mL	1.2846 mL	2.5691 mL
50 mM	0.0514 mL	0.2569 mL	0.5138 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

Asquith CRM, et al. SGC-GAK-1: A Chemical Probe for Cyclin G Associated Kinase (GAK). J Med Chem. 2019 Feb 26.

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