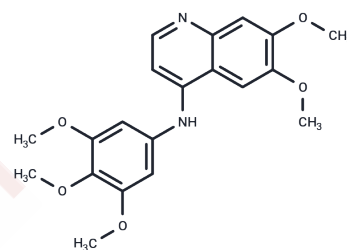


## GAK inhibitor 49

## Chemical Properties

CAS No. :	319492-82-5
Formula:	C <sub>20</sub> H <sub>22</sub> N <sub>2</sub> O <sub>5</sub>
Molecular Weight:	370.4
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	GAK inhibitor 49 is a highly selective and ATP-competitive cyclin G associated kinase (GAK) inhibitor (IC <sub>50</sub> : 56 nM; K <sub>i</sub> : 0.54 nM ).
Targets(IC <sub>50</sub> )	Serine/threonin kinase

## Solubility Information

Solubility	DMSO: 12 mg/mL (32.4 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 (5.4 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	2.6998 mL	13.4989 mL	26.9978 mL
5 mM	0.540 mL	2.6998 mL	5.3996 mL
10 mM	0.270 mL	1.3499 mL	2.6998 mL
50 mM	0.054 mL	0.270 mL	0.540 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. Identification and Optimization of 4-Anilinoquinolines as Inhibitors of Cyclin G Associated Kinase. ChemMedChem. 2018;13(1):48-66.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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