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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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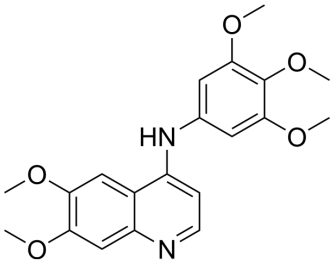
GAK inhibitor 49

Cat. No.:	HY-124793
CAS No.:	319492-82-5
Molecular Formula:	$C_{20}H_{22}N_2O_5$
Molecular Weight:	370.4
Target:	Cyclin G-associated Kinase (GAK)
Pathway:	Cell Cycle/DNA Damage
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (134.99 mM; ultrasonic and warming and heat to 80°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.6998 mL	13.4989 mL	26.9978 mL
	5 mM	0.5400 mL	2.6998 mL	5.3996 mL
	10 mM	0.2700 mL	1.3499 mL	2.6998 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (5.62 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.08 mg/mL (5.62 mM); Suspended solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (5.62 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

GAK inhibitor 49 is a potent, ATP-competitive and highly selective cyclin G associated kinase (GAK) inhibitor with a K_i of 0.54 nM and a cell IC_{50} of 56 nM. GAK inhibitor 49 also shows binding to RIPK2[1].

In Vitro

GAK inhibitor 49 (compound 49) shows a weak inhibitory effect on AAK1, BMP2K and STK16, with IC_{50}s of 28, 63 and >100 μM, respectively[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Asquith CRM, et al. Identification and Optimization of 4-Anilinoquinolines as Inhibitors of Cyclin G Associated Kinase. ChemMedChem. 2018;13(1):48-66.

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