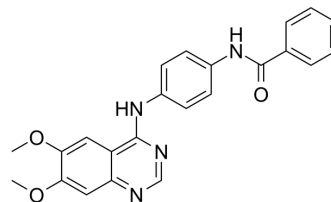


Aurora kinase inhibitor-2

Cat. No.:	HY-112355
CAS No.:	331770-21-9
Molecular Formula:	C ₂₃ H ₂₀ N ₄ O ₃
Molecular Weight:	400.43
Target:	Aurora Kinase
Pathway:	Cell Cycle/DNA Damage; Epigenetics
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (249.73 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.4973 mL	12.4866 mL	24.9732 mL
				5 mM	0.4995 mL	2.4973 mL	4.9946 mL
				10 mM	0.2497 mL	1.2487 mL	2.4973 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.24 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.24 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (5.19 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	Aurora kinase inhibitor-2 is a selective and ATP-competitive Aurora kinase inhibitor with IC ₅₀ s of 310 nM and 240 nM for Aurora A and Aurora B, respectively ^[1] .	
IC ₅₀ & Target	Aurora A 310 nM (IC ₅₀)	Aurora B 240 nM (IC ₅₀)
In Vitro	Aurora kinase inhibitor-2 (Compound 1) shows excellent levels of Aurora A enzyme inhibition and is also effective in an MCF7 cellular anti-proliferative assay (IC ₅₀ value of 1.25 μM) ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

- [1]. Andrew A Mortlock, et al. Progress in the development of selective inhibitors of aurora kinases. *Curr Top Med Chem*. 2005;5(8):807-21.
- [2]. Nicola M Heron, et al. SAR and inhibitor complex structure determination of a novel class of potent and specific Aurora kinase inhibitors. *Bioorg Med Chem Lett*. 2006 Mar 1;16(5):1320-3.
-

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA