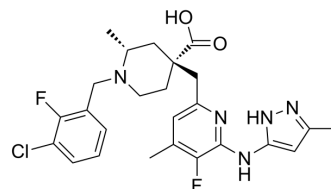


JAB-2485

Cat. No.:	HY-157396									
CAS No.:	2899209-55-1									
Molecular Formula:	C ₂₅ H ₂₈ ClF ₂ N ₅ O ₂									
Molecular Weight:	503.97									
Target:	Aurora Kinase; Apoptosis									
Pathway:	Cell Cycle/DNA Damage; Epigenetics; Apoptosis									
Storage:	<table border="0"> <tr> <td>Powder</td> <td>-20°C</td> <td>3 years</td> </tr> <tr> <td>In solvent</td> <td>-80°C</td> <td>6 months</td> </tr> <tr> <td></td> <td>-20°C</td> <td>1 month</td> </tr> </table>	Powder	-20°C	3 years	In solvent	-80°C	6 months		-20°C	1 month
Powder	-20°C	3 years								
In solvent	-80°C	6 months								
	-20°C	1 month								



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (198.42 mM)
 * "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.9842 mL	9.9212 mL	19.8424 mL
	5 mM	0.3968 mL	1.9842 mL	3.9685 mL
	10 mM	0.1984 mL	0.9921 mL	1.9842 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.5 mg/mL (4.96 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 2.5 mg/mL (4.96 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (4.96 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

JAB-2485 is a potent and selective Aurora kinase A (AURKA) inhibitor, with an IC₅₀ of 0.33 nM. JAB-2485 exhibits around 1700-fold selectivity for AURKA over AURKB. JAB-2485 induces cell cycle arrest and apoptosis. JAB-2485 can be used for the research of cancer^[1].

IC₅₀ & Target

IC₅₀: 0.33 nM (AURKA)^[1]

REFERENCES

[1]. Yang G, et, al. Abstract 1645: JAB-2485: A potent, highly selective small-molecule Aurora kinase A inhibitor that targets cell division. Cancer Res (2023) 83 (7_Supplement): 1645.

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

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