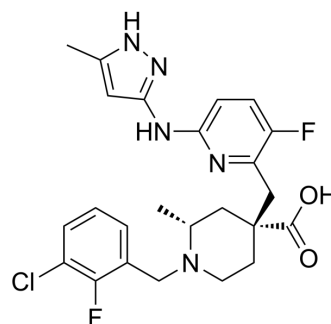


LY3295668

Cat. No.:	HY-114258
CAS No.:	1919888-06-4
Molecular Formula:	C ₂₄ H ₂₆ ClF ₂ N ₅ O ₂
Molecular Weight:	489.95
Target:	Aurora Kinase
Pathway:	Cell Cycle/DNA Damage; Epigenetics
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (204.10 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.0410 mL	10.2051 mL	20.4102 mL
	5 mM	0.4082 mL	2.0410 mL	4.0820 mL
	10 mM	0.2041 mL	1.0205 mL	2.0410 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 (5.10 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (5.10 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (5.10 mM); Clear solution
- Add each solvent one by one: 5% DMSO >> 40% PEG300 >> 5% Tween-80 >> 50% saline
Solubility: ≥ 2.5 mg/mL (5.10 mM); Clear solution
- Add each solvent one by one: 1% DMSO >> 99% saline
Solubility: ≥ 0.5 mg/mL (1.02 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

LY3295668 (AK-01) is a potent, orally active and highly specific Aurora-A kinase inhibitor, with K_i values of 0.8 nM and 1038 nM for AurA and AurB, respectively.

IC₅₀ & Target

Aurora A

	0.8 nM (IC ₅₀)
In Vitro	LY3295668 is a highly specific Aurora-A kinase inhibitor, with K _i values of 0.8 nM and 1038 nM for AurA and AurB, respectively. LY3295668, a highly specific AurA inhibitor, can kill Rb-deficient cancer cells at doses that have minimal effects on normal cells. In a kinome-wide survey, only 5 of 386 kinases are potently inhibited by LY3295668 (<10 nM) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Invest New Drugs. 2021 Jan 6.

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REFERENCES

[1]. Gong X, et al. Aurora-A kinase inhibition is synthetic lethal with loss of the RB1 tumor suppressor gene. Cancer Discov. 2018 Oct 29. pii: CD-18-0469.

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

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