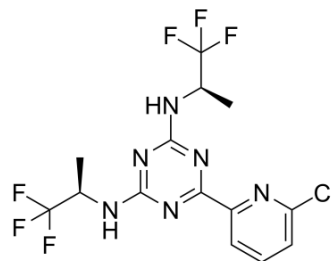


Vorasidenib

Cat. No.:	HY-104042		
CAS No.:	1644545-52-7		
Molecular Formula:	C ₁₄ H ₁₃ ClF ₆ N ₆		
Molecular Weight:	414.74		
Target:	Isocitrate Dehydrogenase (IDH)		
Pathway:	Metabolic Enzyme/Protease		
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 : 100 mg/mL (241.11 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.4111 mL	12.0557 mL	24.1115 mL
5 mM	0.4822 mL	2.4111 mL	4.8223 mL
10 mM	0.2411 mL	1.2056 mL	2.4111 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: 2.08 mg/mL (5.02 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 2.08 mg/mL (5.02 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: 2.08 mg/mL (5.02 mM); Clear solution; Need warming
- Add each solvent one by one: 5% DMSO >> 40% PEG300 >> 5% Tween-80 >> 50% saline
Solubility: 2.5 mg/mL (6.03 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 5% DMSO >> 95% (20% SBE-β-CD in saline)
Solubility: 2.4 mg/mL (5.79 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

Vorasidenib (AG-881) is an orally available, brain penetrant second-generation dual mutant isocitrate dehydrogenases 1 and 2 (mIDH1/2) inhibitor. Vorasidenib (AG-881) exhibits nanomolar inhibition of (D)-2-hydroxyglutarate (D-2-HG), and the IC₅₀ ranges of 0.04~22 nM against IDH1 R132C, IDH1 R132G, IDH1 R132H and IDH1 R132S and 7~14 nM against IDH2 R140Q and

	130 nM against IDH2 R172K ^{[1][2]} .
IC₅₀ & Target	IC50: 0.04~22 nM (IDH1 R132C, IDH1 R132G, IDH1 R132H, IDH1 R132S), 7~14 nM (IDH2 R140Q), 130 nM (IDH2 R172K) ^[2]
In Vitro	Vorasidenib has strong antiproliferative activity against human glioblastoma U-87 MG pLVX-IDH2 R140Q-neo, fibrosarcoma HT-1080 and neurosphere TS603 cells, all with IC ₅₀ s of less than 50 nM ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Theranostics. 2020 Jul 9;10(19):8757-8770.
- Metabolites. 2021, 11(2), 109.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Fujii T, et al. Targeting isocitrate dehydrogenase (IDH) in cancer. *Discov Med*. 2016 May;21(117):373-80.
- [2]. Ma T, et al. Inhibitors of Mutant Isocitrate Dehydrogenases 1 and 2 (mIDH1/2): An Update and Perspective. *J Med Chem*. 2018 Oct 25;61(20):8981-9003.
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Caution: Product has not been fully validated for medical applications. For research use only.

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