Ivosidenib

Cat. No.:	HY-18767			
CAS No.:	1448347-49	-6		
Molecular Formula:	C ₂₈ H ₂₂ ClF ₃ N ₆ O ₃			
Molecular Weight:	582.96			
Target:	Isocitrate Dehydrogenase (IDH)			
Pathway:	Metabolic Enzyme/Protease			
Storage:	Powder	-20°C	3 years	
		4°C	2 years	
	In solvent	-80°C	1 year	
		-20°C	6 months	

SOLVENT & SOLUBILITY

In Vitro	DMSO : ≥ 39 mg/mL (66.90 mM) * "≥" means soluble, but saturation unknown.						
Preparing Stock Solutions		Solvent Mass Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	1.7154 mL	8.5769 mL	17.1538 mL		
		5 mM	0.3431 mL	1.7154 mL	3.4308 mL		
		10 mM	0.1715 mL	0.8577 mL	1.7154 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 (3.57 mM); Suspended solution; Need ultrasonic						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.08 mg/mL (3.57 mM); Suspended solution; Need ultrasonic						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (3.57 mM); Clear solution						



Product Data Sheet

In Vitro	Ivosidenib (AG-120) (0-13 μM; 48 hours) inhibits several IDH1-R132 mutants with potency similar IC ₅₀ values: IDH1-R132H (IC ₅₀ =12 nM); IDH1-R132C (IC ₅₀ =13 nM); IDH1-R132G (IC ₅₀ =8 nM); IDH1-R132L (IC ₅₀ =13 nM); IDH1-R132S (IC ₅₀ =12 nM), respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
In Vivo	AG-120 (gavage administ inhibition (92.0% and 95. MCE has not independen Animal Model: Dosage: Administration:	ration; 50 mg/kg and 150 mg/kg) declines tumor 2-HG concentration rapidly, with maximum 2% at the 50 mg/kg and 150 mg/kg doses, respectively) achieved at -12 h post dose ^[1] . tly confirmed the accuracy of these methods. They are for reference only. Female nude BALB/c mice inoculated with HT1080 cells ^[1] 50 mg/kg and 150 mg/kg Gavage administration; 50 mg/kg and 150 mg/kg		
	Result:	Showed robust tumor 2-HG reduction in mouse.		

CUSTOMER VALIDATION

- Nat Commun. 2022 Aug 15;13(1):4785.
- J Exp Med. 2021 May 3;218(5):e20200924.
- Theranostics. 2020 Jul 9;10(19):8757-8770.
- J Med Chem. 2023 Mar 23.
- Eur J Med Chem. 2023 May 12, 115411.

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REFERENCES

[1]. Popovici-Muller J, et al. Discovery of AG-120 (Ivosidenib): A First-in-Class Mutant IDH1 Inhibitor for the Treatment of IDH1Mutant Cancers. ACS Med Chem Lett. 2018 Jan 19;9(4):300-305.

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

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