FGFR4-IN-5

Cat. No.:	HY-131704		
CAS No.:	1628793-01-0		
Molecular Formula:	C ₂₃ H ₂₃ Cl ₂ N ₅	D ₅	
Molecular Weight:	520.37		
Target:	FGFR		
Pathway:	Protein Tyre	osine Kina	ase/RTK
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month

SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	1.9217 mL	9.6085 mL	19.2171 mL		
		5 mM	0.3843 mL	1.9217 mL	3.8434 mL		
		10 mM	0.1922 mL	0.9609 mL	1.9217 mL		
	Please refer to the so	Please refer to the solubility information to select the appropriate solvent.					
Solubility: ≥ 2. 2. Add each solve		1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (4.80 mM); Clear solution					
		d each solvent one by one: 10% DMSO >> 90% corn oil lubility: ≥ 2.5 mg/mL (4.80 mM); Clear solution					

BIOLOGICAL ACTIV		
DIOLOGICALACTIV		
Description	FGFR4-IN-5 is a potent and selective covalent FGFR4 inhibitor with an IC ₅₀ of 6.5 nM. FGFR4-IN-5 exhibits strong anti-tumor activity in vivo and can be used for hepatocellular carcinoma research ^[1] .	
IC₅₀ & Target	FGFR4 6.5 nM (IC ₅₀)	FGFR2 505 nM (IC ₅₀)
In Vivo	ng/ml, and 2820 ng/ml in mice mouse, rat, and cyno, respect	ng/kg; single dose) reveals a high C _{max} , low clearance, the C _{max} values are 423 ng/ml, 588 e, rat and cynamolgus monkey, respectively. And the oral bioavailability are 20, 12, and 27% in :ively ^[1] . mg/kg; twice daily; 28 days) exhibits strong antitumor activity in an orthotopic Hep3B HTX

Product Data Sheet

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FGFR4-IN-5 (oral gavage; 10, 30, and 100 mg/kg; twice daily; 11 days) results in dose-dependent growth inhibition of resistant tumors. Tumor regression is observed at 30 and 100 mg/kg, with $\%\Delta T/\Delta C$ of 67% and 70%, respectively. However, treatment with sorafenib at 100 mg/kg once daily does not provide any benefit in vivo^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Hep3B cell bearing mice model ^[1]		
Dosage:	100 mg/kg		
Administration:	Oral gavage; 100 mg/kg; twice daily; 28 days		
Result:	Resulted in tumor regression and sustained growth inhibition.		
Animal Model:	Sorafenib-resistant tumors established to mice bearing Huh7 tumors $^{[1]}$		
Dosage:	10, 30, and 100 mg/kg		
Administration:	Oral gavage; 10, 30, and 100 mg/kg; twice daily; 11 days		
Result:	Resulted in dose-dependent growth inhibition of resistant tumors.		

REFERENCES

[1]. Haibo Liu, et al. Discovery of Selective, Covalent FGFR4 Inhibitors with Antitumor Activity in Models of Hepatocellular Carcinoma. ACS Med Chem Lett. 2020 Mar 6;11(10):1899-1904.

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

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