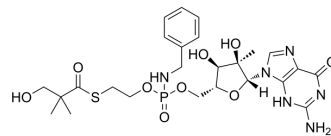


IDX184

Cat. No.:	HY-19558		
CAS No.:	1036915-08-8		
Molecular Formula:	C ₂₅ H ₃₅ N ₆ O ₉ PS		
Molecular Weight:	626.62		
Target:	HCV; HCV Protease		
Pathway:	Anti-infection; Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (398.97 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.5959 mL	7.9793 mL	15.9586 mL
5 mM	0.3192 mL	1.5959 mL	3.1917 mL
10 mM	0.1596 mL	0.7979 mL	1.5959 mL

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

BIOLOGICAL ACTIVITY

Description

IDX184 is a potent and orally bioavailable inhibitor of HCV replication. IDX184 potently inhibits HCV polymerase (IC₅₀=0.31 μM, K_i=52.3 nM)^{[1][2]}.

IC₅₀ & Target

IC₅₀: 0.31 μM (HCV polymerase)^[2]
 Ki: 52.3 nM (HCV polymerase)^[2]

In Vitro

IDX184 is a liver-targeted prodrug of the nucleotide 2'-MeG-MP. IDX184 is a liver-targeted nucleotide polymerase inhibitor of hepatitis C virus^[1].

IDX184 is a second generation, orally bioavailable nucleotide prodrug designed to provide increased anti-HCV efficacy and safety versus the parent nucleoside. In HCV replicon testing, IDX184 is the most potent inhibitor (EC₅₀=0.3-0.45 μM) compared to any of the 2' or 4' modified nucleosides (EC₅₀=4-6 μM) and is also highly inhibitory in the JFH-1 infectious system (EC₅₀=0.06-0.11 μM). IDX184 is not toxic (CC₅₀>100 μM) in any tested cell line^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Xiao-Jian Zhou , et al. Safety and Pharmacokinetics of IDX184, a Liver-Targeted Nucleotide Polymerase Inhibitor of Hepatitis C Virus, in Healthy Subjects. *Antimicrob Agents Chemother.* 2011 Jan;55(1):76-81.

[2]. IN VITRO ANTIVIRAL ACTIVITY AND PHARMACOLOGY OF IDX184, A NOVEL AND POTENT INHIBITOR OF HCV REPLICATION.

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

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