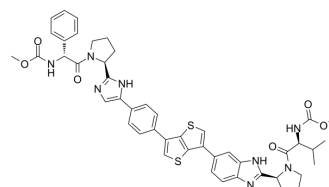


## Samatasvir

Cat. No.:	HY-16784
CAS No.:	1312547-19-5
Molecular Formula:	C <sub>47</sub> H <sub>48</sub> N <sub>8</sub> O <sub>6</sub> S <sub>2</sub>
Molecular Weight:	885.06
Target:	HCV Protease; HCV
Pathway:	Anti-infection; Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (56.49 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	1.1299 mL	5.6493 mL	11.2987 mL
			5 mM	0.2260 mL	1.1299 mL	2.2597 mL
			10 mM	0.1130 mL	0.5649 mL	1.1299 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: ≥ 2.5 mg/mL (2.82 mM); Clear solution  2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (2.82 mM); Suspended solution; Need ultrasonic					

### BIOLOGICAL ACTIVITY

Description	Samatasvir (IDX71) is a potent, orally active NS5A inhibitor of HCV replication. Samatasvir is effective and selective against infectious HCV and replicons, with EC <sub>50</sub> s falling within a tight range of 2 to 24 pM in genotype 1 through 5 replicons <sup>[1]</sup> .
In Vitro	Samatasvir (IDX719) retains full activity in the presence of HIV and hepatitis B virus (HBV) antivirals and is not cross-resistant with HCV protease, nucleotide, and nonnucleoside polymerase inhibitor classes <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

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[1]. Bilello JP, et al. In vitro activity and resistance profile of samatasvir, a novel NS5A replication inhibitor of hepatitis C virus. *Antimicrob Agents Chemother.* 2014;58(8):4431-4442.

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

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