IR415

Cat. No.:	HY-116999		
CAS No.:	452967-14-	5	
Molecular Formula:	C ₁₃ H ₁₄ F ₂ N ₄ S		
Molecular Weight:	296.34		
Target:	HBV		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

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SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (421.81 mM; Need ultrasonic)						
Preparin Stock So		Solvent Mass Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	3.3745 mL	16.8725 mL	33.7450 mL		
		5 mM	0.6749 mL	3.3745 mL	6.7490 mL		
	10 mM	0.3375 mL	1.6873 mL	3.3745 mL			
	Please refer to the so	lubility information to select the ap	propriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (7.02 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (7.02 mM); Clear solution						
	 Add each solvent of Solubility: ≥ 2.08 n 	one by one: 10% DMSO >> 90% con ng/mL (7.02 mM); Clear solution	m oil				

Description	IR415 is a potent anti-HBV agent and inhibits HBV replication by blocking the HBx activity. IR415 selectively interacts with HBx (K _d =2 nM) and blocks HBV-mediated RNAi suppression, reverses the inhibitory effect of HBx protein on the activity of the dicer endoribonuclease ^[1] . HBx: hepatitis B virus X protein.			
IC ₅₀ & Target	Kd: 2 nM (IR415-HBx interaction) ^[1]			
In Vitro	Hepatitis B virus X protein (HBx) as a suppressor of host defenses consisting of RNAi-based silencing of viral genes ^[1] .			

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IR415 (50-200 μ M) has a dose-dependent inhibitory effect on HBx, with a minimal effective concentration of 50 μ M in HepG2/GFP-shRNA line transfected with HBx^[1].

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

REFERENCES

[1]. Ghosh S, et al. An RNAi-based high-throughput screening assay to identify small molecule inhibitors of hepatitis B virus replication. J Biol Chem. 2017 Jul 28;292(30):12577-12588.

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

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