Velpatasvir

Cat. No.:	HY-12530		
CAS No.:	1377049-84-7		
Molecular Formula:	$C_{_{49}}H_{_{54}}N_{_8}O_{_8}$		
Molecular Weight:	883		
Target:	HCV; SARS-CoV		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

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SOLVENT & SOLUBILITY

H * P S	H ₂ O : < 0.1 mg/mL (in	DMSO : ≥ 100 mg/mL (113.25 mM) H ₂ O : < 0.1 mg/mL (insoluble) * "≥" means soluble, but saturation unknown.					
		Mass Solvent Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	1.1325 mL	5.6625 mL	11.3250 mL		
		5 mM	0.2265 mL	1.1325 mL	2.2650 mL		
		10 mM	0.1133 mL	0.5663 mL	1.1325 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 (2.83 mM); Clear solution					
Solul 3. Add e	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (2.83 mM); Suspended solution; Need ultrasonic						
		3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (2.83 mM); Clear solution					

BIOLOGICAL ACTIV	ТТҮ
Description	Velpatasvir (VEL, GS-5816) is a novel pan-genotypic hepatitis C virus (HCV) nonstructural protein 5A (NS5A) inhibitor activity against genotype 1 (GT1) to GT6 HCV replicons. Velpatasvir is also a SARS-CoV 3CL ^{pro} inhibitor with an IC ₅₀ M ^[2] .
In Vivo	Velpatasvir (10 mg/kg/d, p.o.) alone or in combination with Sofosbuvir (HY-15005) (20 mg/kg/d) inhibits liver fibrosi

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	CCl ₄ -induced non-HCV rat model ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
Animal Model:	CCl ₄ -induced non-HCV rat model ^[3]	
Dosage:	10 mg/kg/d alone, or in combination with Sofosbuvir (20 mg/kg/d)	
Administration:	p.o.	
Result:	Decreased the levels of TNF-a, NF-ĸB and IL-6 in serum and hepatic tissues. Inhibited hepatic stellate cells (HSCs).	

CUSTOMER VALIDATION

- Signal Transduct Target Ther. 2021 May 29;6(1):212.
- Hepatology. 2019 May;69(5):1861-1872.
- J Gastroenterol. 2019 May;54(5):449-458.
- Viruses. 2018 Aug 28;10(9). pii: E462.
- Pharmaceuticals. 2022 Feb 18;15(2):242.

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REFERENCES

[1]. Yasmeen S, et al. An insight into the hepatoprotective role of Velpatasvir and Sofosbuvir per se and in combination against carbon tetrachloride-induced hepatic fibrosis in rats. Environ Sci Pollut Res Int. 2023 Sep;30(42):95660-95672.

[2]. Lawitz EJ et al. Clinical Resistance to Velpatasvir (GS-5816), a Novel Pan-Genotypic Inhibitor of the Hepatitis C Virus NS5A Protein. Antimicrob Agents Chemother. 2016 Aug 22;60(9):5368-78.

[3]. Qi Sun, et al. Bardoxolone and bardoxolone methyl, two Nrf2 activators in clinical trials, inhibit SARS-CoV-2 replication and its 3C-like protease. Signal Transduct Target Ther. 2021 May 29;6(1):212.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA