

Product Name: Danoprevir (RG7227) Revision Date: 04/22/2024

Product Data Sheet

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Danoprevir (RG7227

Cat. No.:	A4024		
CAS No.:	850876-88-9		
Formula:	C35H46FN5O9S		
M.Wt:	731.83		
Synonyms:	Danoprevir,RG7227,ITMN-191		
Target:	Proteases		
Pathway:	HCV Protease		
Storage:	Store at -20°C		

Solvent & Solubility

	≥32.6 mg/mL in DM	\geq 32.6 mg/mL in DMSO; insoluble in H2O; \geq 46.4 mg/mL in EtOH with ultrasonic				
In Vitro	Preparing Stock Solutions	Mass Solvent Concentration	1mg	5mg	10mg	
		1 mM	1.3664 mL	6.8322 mL	13.6644 mL	
		5 mM	0.2733 mL	1.3664 mL	2.7329 mL	
		10 mM	0.1366 mL	0.6832 mL	1.3664 mL	

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

Biological Activity

Shortsummary	HCV NS3/4A protease inh	HCV NS3/4A protease inhibitor		
IC ₅₀ & Target	0.2-3.5 nM (HCV NS3/4A	0.2-3.5 nM (HCV NS3/4A protease)		
	Cell Viability Assay			
	Cell Line; and the	Huh7 cells harboring HCV replicon		
	Preparation method:	The solubility of this compound in DMSO is >32.6mg/mL. General tips for		
In Vitro		obtaining a higher concentration: Please warm the tube at 37 $^\circ\mathrm{C}$ for 10 minutes		
		and/or shake it in the ultrasonic bath for a while. Stock solution can be stored		
		below -20°C for several months.		
	Reacting conditions:	antiviral assays: 100 nM to 5 pMcytotoxicity assays: 1 mM to 5.6 nM		
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Applications:	ITMN-191 displayed a high degree of specificity for its intended target.		
	replicon-bearing cells, ITMN-191 (3.7 nM-15 nM) promoted a 3.7 log10		
	reduction in replicon levels upon 14 days of in vitro treatment but did not clear		
	HCV replicon from every cell. Treatment with ITMN-191 (45 nM) reduced HCV		
Blow	replicon RNA levels and completely cleared replicon RNA.		
Animal experiment	DE constant		
Animal models:	Rats and monkeys		
Dosage form:	Oral gavage, 30 mg/kg		
Applications:	Danoprevir (30 mg/kg) administered to rats or monkeys shows that its		
	concentrations in liver 12 hours after dosing exceed the Danoprevir		
	concentration required to eliminate replicon RNA from cells.		
Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may		
	slightly differ with the theoretical value. This is caused by an experimental		
	system error and it is normal.		
ct Citations	APER Lander Contractor		
	Animal experiment Animal models: Dosage form: Applications: Other notes:		

See more customer validations on www.apexbt.com.

References

[1]. Seiwert S D, Andrews S W, Jiang Y, et al. Preclinical characteristics of the hepatitis C virus NS3/4A protease inhibitor ITMN-191 (R7227)[J]. Antimicrobial agents and chemotherapy, 2008, 52(12): 4432-4441.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.













