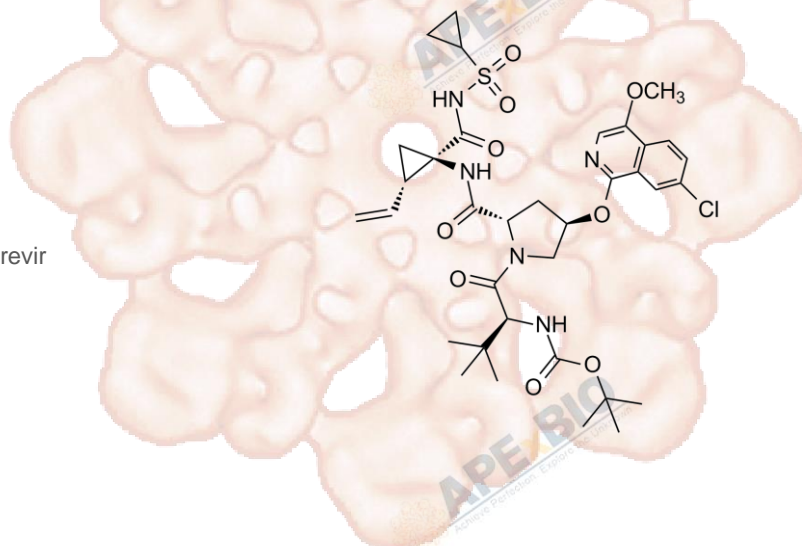


# Product Data Sheet

## Asunaprevir (BMS-650032)

<b>Cat. No.:</b>	A3195
<b>CAS No.:</b>	630420-16-5
<b>Formula:</b>	C35H46ClN5O9S
<b>M.Wt:</b>	748.29
<b>Synonyms:</b>	BMS-650032;BMS 650032;BMS650032,Asunaprevir
<b>Target:</b>	Proteases
<b>Pathway:</b>	HCV Protease
<b>Storage:</b>	Store at -20°C



### Solvent & Solubility

≥37.41 mg/mL in DMSO; insoluble in H<sub>2</sub>O; ≥48.6 mg/mL in EtOH

In Vitro

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1mg	5mg	10mg
	1 mM		1.3364 mL	6.6819 mL	13.3638 mL
	5 mM		0.2673 mL	1.3364 mL	2.6728 mL
	10 mM		0.1336 mL	0.6682 mL	1.3364 mL

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

### Biological Activity

Shortsummary

NS3 protease inhibitor

IC<sub>50</sub> & Target

#### Cell Viability Assay

In Vitro

Cell Line:	HuH-7, MRC5, MT-2, HepG2, HeLa and HEK293 cells
Preparation method:	Soluble in DMSO. General tips for obtaining a higher concentration: Please warm the tube at 37°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:	4 days

	Applications:	Asunaprevir inhibited HCV RNA replication in different cell lines, including liver, T lymphocytes, lung, cervix, and embryonic kidney. It showed no obvious activity against other RNA viruses.
In Vivo	<b>Animal experiment</b>	
	Animal models:	Rats
	Dosage form:	10 µM; p.o.; 60 mins
	Applications:	After oral dosing to the rat, Asunaprevir demonstrated modest oral bioavailability and a plasma AUC of 1.0 µM·h. However, at the 24th hrs after p.o. dosing, the liver levels of Asunaprevir were high at 15.2 µM, suggesting a hepatotropic distribution in vivo.
	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.

## Product Citations

1. Rago F, DiMare MT, et al. "Degron mediated BRM/SMARCA2 depletion uncovers novel combination partners for treatment of BRG1/SMARCA4-mutant cancers." *Biochem Biophys Res Commun.* 2019 Jan 1;508(1):109-116.PMID:30527810
2. Nadia Hegarat, Adrijana Crncec, et al. "Cyclin A triggers Mitosis either via Greatwall or Cyclin B." *bioRxiv.* 2018 December 19.

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## References

- [1]. McPhee F, Sheaffer AK, Friberg J, Hernandez D, Falk P, Zhai G, Levine S, Chaniewski S, Yu F, Barry D, Chen C, Lee MS, Mosure K, Sun LQ, Sinz M, Meanwell NA, Colonno RJ, Knipe J, Scola P. Preclinical Profile and Characterization of the Hepatitis C Virus NS3 Protease Inhibitor Asunaprevir (BMS-650032). *Antimicrob Agents Chemother.* 2012 Oct;56(10):5387-96.
- [2]. Scola PM, Sun LQ, Wang AX, Chen J, Sin N, Venables BL, Sit SY, Chen Y, Cocuzza A, Bilder DM, D'Andrea SV, Zheng B, Hewawasam P, Tu Y, Friberg J, Falk P, Hernandez D, Levine S, Chen C, Yu F, Sheaffer AK, Zhai G, Barry D, Knipe JO, Han YH, Schartman R, Donoso M, Mosure K, Sinz MW, Zvyaga T, Good AC, Rajamani R, Kish K, Tredup J, Klei HE, Gao Q, Mueller L, Colonno RJ, Grasela DM, Adams SP, Loy J, Levesque PC, Sun H, Shi H, Sun L, Warner W, Li D, Zhu J, Meanwell NA, McPhee F. The discovery of asunaprevir (BMS-650032), an orally efficacious NS3 protease inhibitor for the treatment of hepatitis C virus infection. *J Med Chem.* 2014 Mar 13;57(5):1730-52.

## 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 APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term 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

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of the product, follow the storage recommendations on the product data sheet.



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