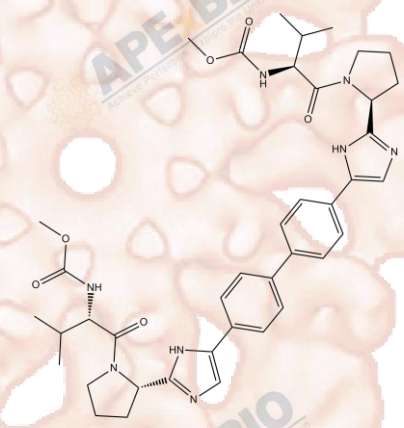
Product Data Sheet

Daclatasvir (BMS-790052)



Cat. No.: A5618
CAS No.: 1009119-64-5; 1214735-16-6
Formula: C40H50N8O6
M.Wt: 738.88
Synonyms:
Target: Proteases
Pathway: HCV Protease
Storage: Store at -20°C

Solvent & Solubility

⩾36.6 mg/mL in DMSO; insoluble in H2O; ⩾23.33 mg/mL in EtOH with ultrasonic

In Vitro — Preparing Stock Solutions

Concentration \ Mass / Solvent	1mg	5mg	10mg
1 mM	1.3534 mL	6.7670 mL	13.5340 mL
5 mM	0.2707 mL	1.3534 mL	2.7068 mL
10 mM	0.1353 mL	0.6767 mL	1.3534 mL

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

Biological Activity

Shortsummary	HCV NS5A inhibitor
IC_{50} & Target	9 pM-50 pM(EC50) (HCV NS5A)

In Vitro — **Cell Viability Assay**

Cell Line:	HCV genotypes and the JFH-1 genotype 2a infectious virus in cell culture
Preparation method:	The solubility of this compound in DMSO is > 36.6 mg/mL. 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:	EC50: 9 to 146 pM

	Applications:	BMS-790052 exhibited picomolar half-maximum effective concentrations towards replicons expressing a broad range of HCV genotypes and the JFH-1 genotype 2a infectious virus in cell culture, with EC50 values ranging from 9 to 146 pM. BMS-790052 displayed similar potency in Huh-7, HeLa and HEK293T cells.
In Vivo	**Animal experiment**	
	Animal models:	patients chronically infected with HCV
	Dosage form:	Oral administration, 10-100 mg
	Applications:	BMS-790052 was safe and well tolerated in HCV-infected subjects after single oral doses up to 100 mg. In HCV-infected subjects, BMS-790052 had a mean plasma elimination half-life ranging from 10 to 14 h. Administration of a single 100-mg dose of BMS-790052 was associated with a 3.3log 10 reduction in mean viral load measured 24h post-dose that was sustained for an additional 120h in two patients infected with genotype 1b virus.
	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

See more customer validations on www.apexbt.com.

References

[1]. Gao M, Nettles R E, Belema M, et al. Chemical genetics strategy identifies an HCV NS5A inhibitor with a potent clinical effect[J]. Nature, 2010, 465(7294): 96.

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.

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