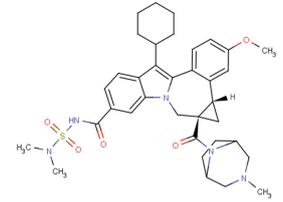


Beclabuvir

Chemical Properties

CAS No.:	958002-33-0
Formula:	C ₃₆ H ₄₅ N ₅ O ₅ S
Molecular Weight:	659.84
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Beclabuvir is an allosteric inhibitor that binds to thumb site 1 of the HCV NS5B RNA-dependent RNA polymerase. It inhibits recombinant NS5B proteins from HCV genotypes 1, 3, 4, and 5 (IC ₅₀ < 28 nM).
Targets(IC ₅₀)	NS5B protein: < 28 nM
In vitro	Beclabuvir shows additive or synergistic antiviral activity with pegIFN/RBV and in 2- or 3-drug combinations with a range of DAAs, such as HCV NS5A inhibitors, NS3 protease inhibitors and/or nucleoside NS5B inhibitors [2].
In vivo	The combination of Beclabuvir with daclatasvir and asunaprevir achieves very high rates of viral eradication (about 90%) in patients infected with HCV genotype 1, which is the most common genotype worldwide [1].

Solubility Information

Solubility	DMSO: 30 mg/mL (45.47 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.516 mL	7.578 mL	15.155 mL
5 mM	0.303 mL	1.516 mL	3.031 mL
10 mM	0.152 mL	0.758 mL	1.516 mL
50 mM	0.03 mL	0.152 mL	0.303 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

- Gentile I, et al. Beclabuvir for the treatment of hepatitis C. Expert Opin Investig Drugs. 2015;24(8):1111-21
- Tatum H, et al. A randomized, placebo-controlled study of the NS5B inhibitor beclabuvir with peginterferon/ribavirin for HCV genotype 1. J Viral Hepat. 2015 Aug;22(8):658-64.

Inhibitors · Natural Compounds · Compound Libraries

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