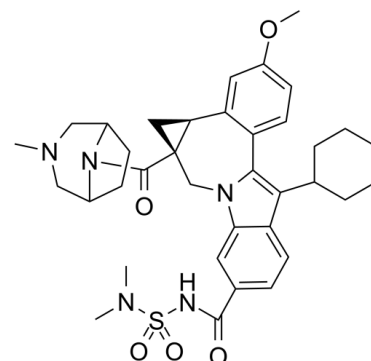


## Data Sheet

<b>Product Name:</b>	Beclabuvir
<b>Cat. No.:</b>	CS-6041
<b>CAS No.:</b>	958002-33-0
<b>Molecular Formula:</b>	C <sub>36</sub> H <sub>45</sub> N <sub>5</sub> O <sub>5</sub> S
<b>Molecular Weight:</b>	659.84
<b>Target:</b>	HCV
<b>Pathway:</b>	Anti-infection
<b>Solubility:</b>	DMSO : ≥ 30 mg/mL (45.47 mM)



### BIOLOGICAL ACTIVITY:

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

### References:

[1]. Gentile I, et al. Beclabuvir for the treatment of hepatitis C. *Expert Opin Investig Drugs*. 2015;24(8):1111-21

[2]. 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.

### CAIndexNames:

Cycloprop[d]indolo[2,1-a][2]benzazepine-9-carboxamide, 12-cyclohexyl-N-[(dimethylamino)sulfonyl]-4b,5,5a,6-tetrahydro-3-methoxy-5a-[(3-methyl-3,8-diazabicyclo[3.2.1]oct-8-yl)carbonyl]-, (4bS,5aR)-

### SMILES:

O=C(N1C2CCC1CN(C)C2)[C@@]3(CN4C5=C(C6CCCC6)C7=CC=C(C(NS(N(C)C)(=O)=O)=O)C=C47)[C@H](C8=CC(OC)=CC=C85)C3

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

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