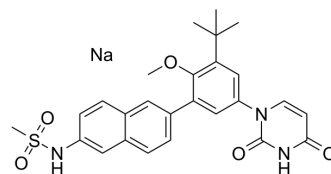


Dasabuvir sodium

Cat. No.:	HY-13998A
CAS No.:	1132940-11-4
Molecular Formula:	C ₂₆ H ₂₇ N ₃ NaO ₅ S
Molecular Weight:	516.56
Target:	HCV; DNA/RNA Synthesis
Pathway:	Anti-infection; Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Dasabuvir (ABT-333) sodium is a nonnucleoside hepatitis C virus (HCV) polymerase inhibitor. Dasabuvir sodium inhibits RNA-dependent RNA polymerase encoded by the HCV NS5B gene. Dasabuvir sodium inhibits genotype 1a (strain H77) and 1b (strain Con1) replicons, with EC ₅₀ values of 7.7 and 1.8 nM, respectively ^[1] .
IC₅₀ & Target	IC ₅₀ : 2.2 ± 0.3 nM (HCV genotype 1b N), 2.8 ± 0.2 nM (HCV genotype 1a H77), 3.1 ± 0.21 nM (HCV genotype 1b BK), 0.7 ± 1.4 nM (HCV genotype 1b Con1) ^[1]
In Vitro	<p>Dasabuvir (ABT-333) sodium is at least 7,000-fold selective for the inhibition of HCV genotype 1 polymerases over human/mammalian polymerases^[1].</p> <p>Dasabuvir sodium inhibits the polymerase enzymatic activity of genotype 1 laboratory strain enzymes (H77, BK, N, and Con1 strains), as well as enzymes produced from polymerase genes from HCV genotype 1-infected subjects, with IC₅₀s between 2.2 and 10.7 nM^[1].</p> <p>Dasabuvir sodium inhibits replication of HCV subgenomic replicons in cell culture assays, with EC₅₀ values of 7.7 and 1.8 nM against genotype 1a (H77) and 1b (Con1), respectively. In the presence of 40% human plasma, there is a 12- to 13-fold decrease in inhibitory potency, yielding EC₅₀s of 99 and 21 nM for HCV genotype 1a (H77) and 1b (Con1) replicons, respectively^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

CUSTOMER VALIDATION

- Proc Natl Acad Sci U S A. 2017 Feb 21;114(8):1922-1927.
- Antimicrob Agents Chemother. 2019 May 24;63(6). pii: e00003-19.
- Antiviral Res. 2019 Oct;170:104570.
- Antiviral Res. 2017 Mar;139:18-24.
- Sci Rep. 2020 Feb 26;10(1):3521.

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REFERENCES

[1]. Kati W, et al. In vitro activity and resistance profile of dasabuvir, a nonnucleoside hepatitis C virus polymerase inhibitor. Antimicrob Agents Chemother. 2015 Mar;59(3):1505-11.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA