

Product Data Sheet

Product Name: Paritaprevir

Cat. No.: GC19275

Chemical Properties

Cas. No. 1216941-48-8

SMILES O=C([C@]1(NC([C@@]2([H])N3C[C@H](OC4=C(C=CC=C5)C5=C6C(C=CC=C6)=N4)C2)=O)[C@H](/C=C\CCCC[C@H](NC(C7=NC=C(C)N=C7)=O)C3=O)C1)NS(=O)(C8C8)=O

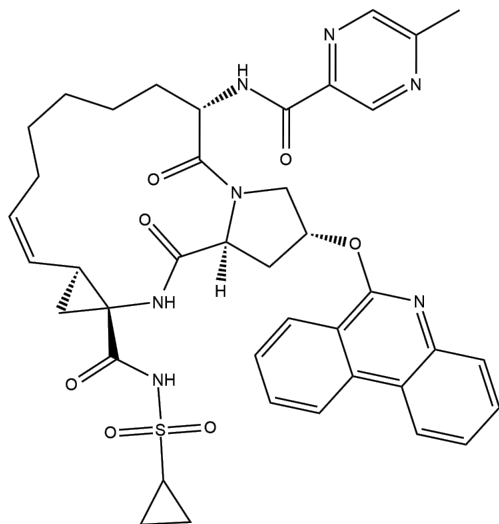
Formula $C_{40}H_{43}N_7O_7S$ M.Wt 765.88

Solubility DMSO : ≥ 125 mg/mL (163.21 mM); Water : < 0.1 mg/mL (insoluble) Storage 4°C , away from moisture and light

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

Paritaprevir (ABT-450) is a potent non-structural protein 3/4A (NS3/4A) protease inhibitor with EC₅₀s of 1 and 0.21 nM against HCV 1a and 1b, respectively.

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

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Paritaprevir demonstrates in vitro antiviral activity against HCV GT1-4 and GT6 (EC50 range, 0.09 to 19 nM), with an EC50 of 0.09 nM against GT4a[2].

The combination of paritaprevir, ritonavir, ombitasvir (an NS5A protein inhibitor), and dasabuvir (an NS5B non-nucleoside polymerase inhibitor) with or without RBV has been approved to treat HCV genotype 1 infections[1].

References:

- [1]. Smith MA, et al. Profile of paritaprevir/ritonavir/ombitasvir plus dasabuvir in the treatment of chronic hepatitis C virus genotype 1 infection. Drug Des Devel Ther. 2015 Nov 13;9:6083-94.
- [2]. Schnell G, et al. Hepatitis C Virus Genotype 4 Resistance and Subtype Demographic Characterization of Patients Treated with Ombitasvir plus Paritaprevir/ritonavir. Antimicrob Agents Chemother. 2015 Aug 17. pii: AAC.01229-15.

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