



Nesbuvir

Catalog No: tcsc0689

Available Sizes		
Size: 5mg		
Size: 10mg		
Size: 50mg		
Specifications		
CAS No: 691852-58-1		
Formula: C ₂₂ H ₂₃ FN ₂ O ₅ S		
Pathway: Anti-infection		
Target: HCV		
Purity / Grade: >98%		
Solubility: DMSO : ≥ 50 mg/mL (111.98 mM)		
Alternative Names: HCV-796		
Observed Molecular Weight:		

Product Description

446.49



Nesbuvir is a nonnucleoside inhibitor of the hepatitis C virus (**HCV**) nonstructural protein 5B (**NS5B**) polymerase.

IC50 & Target: EC50: 9 nM (NS3 V170A), 13 nM (NS3 V170A), 15 nM (NS3 K583T), 13 nM (NS5B I424V)[1]

In Vitro: Replicon cells are treated with 1 mg/mL G418 and combinations of the two compounds. Nesbuvir (HCV-796) is added to 40 or 80 nM (approximately 10 and 20 times the EC_{50} in a 3-day replicon inhibition assay, respectively) and Boceprevir is added to 400 or 800 nM (approximately 2 and 4 times the EC_{50} , respectively). The EC_{50} s for Nesbuvir and Boceprevir for the parental replicon in the transient expression assay are comparable to those obtained in the 3-day inhibition assay with the stable replicon cells; the EC_{50} for Nesbuvir in the transient expression assay is 14 nM, whereas it is 5 nM for the stable replicon; and the EC_{50} for Boceprevir in the transient expression assay is 608 nM, whereas it is 201 nM for the stable replicon^[1].

In Vivo: Among a huge variety of yet characterized nucleoside and non-nucleoside inhibitors (NNI), the benzofurane derivative NNI Nesbuvir (HCV-796) is demonstrated to yield significant antiviral effects in mice with chimeric human livers and in patients infected with HCV. HCV-796 binds to a hydrophobic binding pocket at the "palm" domain of NS5B; however, its mode of inhibition remains to be defined^[2].

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