

Product Data Sheet

Product Name: Ledipasvir diacetone
 Cat. No.: GC36436

Chemical Properties

Cas. No. 1502655-48-2

SMILES O=C(OC)N[C@H](C(N([C@H](C1=NC=C(C2=CC(C(F)(F)C3=C4C=CC(C5=CC=C6N=C([C@H]7N(C([C@@H](NC(OC)=O)C(C)C)=O)[C@]8([H])CC[C@@]7([H])C8)NC6=C5)=C3)=C4C=C2)N1)C9)CC%109CC%10)=O)C(C)C.CC(C)=O.CC(C)=O

Formula C₅₅H₆₆F₂N₈O₈ M.Wt 1005.16

Solubility Soluble in DMSO Storage Store at -20°C

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

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

Structure

Background

Ledipasvir is an inhibitor of hepatitis C virus (HCV) non-structural protein 5A (NS5A).^{1,2} It inhibits viral replication in genotype 1a and 1b HCV replicon cells (EC₅₀s = 0.031 and 0.004 nM, respectively). It also inhibits viral replication in genotype 2a, 2b, 3a, 4a, 4d, 5a, 6a, and 6e HCV replicon cells (EC₅₀s = 0.11-530 nM).² Ledipasvir acts synergistically with IFN-α, ribavirin , or GS-9669 and additively with GS-9451, simeprevir , daclatasvir , or sofosbuvir to inhibit viral replication in genotype 1a HCV replicon cells. Formulations containing ledipasvir have been used in combination therapy for the treatment of chronic HCV infection.

1.Link, J.O., Taylor, J.G., Xu, L., et al. Discovery of ledipasvir (GS-5885): A potent, once-daily oral NS5A inhibitor for the treatment of hepatitis C virus infection]. *Med. Chem.* 57(5)2033-2046(2014) 2.Cheng, G., Tian, Y., Doehle, B., et al. In vitro antiviral activity and resistance profile characterization of the hepatitis C virus NS5A inhibitor ledipasvir *Antimicrob. Agents Chemother.* 60(3)1847-1853(2016)

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

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