Datasheet

Velpatasvir

Product Name	Velpatasvir
Catalogue Number	BSV-S3724
Chemical Formula	$C_{49}H_{54}N_8O_8$
Function	HCV protease inhibitor
CAS No.:	1377049-84-7

Description:

Velpatasvir is a second-generation **NS5A** inhibitor that inhibits hepatitis C viral replication through acting on the crucial "membranous web" that facilitates RNA replication.

Product Details:

Target: NS5A [1]

Chemical name: Carbamic acid, N-[(1R)-2-[(2S,4S)-2-[5-[1,11-dihydro-2-[(2S,5S)-1-[(2S)-2-[(methoxycarbonyl)amino]-3-methyl-1-oxobutyl]-5-methyl-2-pyrrolidinyl][2]benzopyrano[4',3':6,7]naphth[1,2-d]imidazol-9-yl]-1H-imidazol-2-yl]-4-(methoxymethyl)-1-pyrrolidinyl]-2-oxo-1-phenylethyl]-, methyl ester

Formula: $C_{49}H_{54}N_8O_8$

Molecular weight: 883

Purity: 99.38 %

Solubility: 100 mg/mL (DMSO), 100 mg/mL (ethanol), 100 mg/mL (water)

Storage: 3 years -20°C powder, 2 years -80°C in solvent

Regulatory/ Restrictions: For laboratory use only.

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Preparing stock solutions:

Concentration/ Mass	1 mg	5 mg	10 mg
1 mM	1.1325 mL	5.6625 mL	11.3250 mL
5 mM	0.2265 mL	1.1325 mL	2.2650 mL
10 mM	0.1133 mL	0.5663 mL	1.1325 mL
50 mM	0.0227 mL	0.1133 mL	0.2265 mL

Biological Activity:

In vitro:
Velpatasvir (VEL, GS-5816) is a novel pan-genotypic hepatitis C virus (HCV) nonstructural protein 5A (NS5A) inhibitor with activity against genotype 1 (GT1) to GT6 HCV replicons. It is a selective inhibitor of HCV RNA replication with mean 50% effective concentrations (EC50s) against GT1 to GT6 of 6 to 130 pM

References:
[1] Mir F, et al. Drug Des Devel Ther. 2017, 11:497-502.