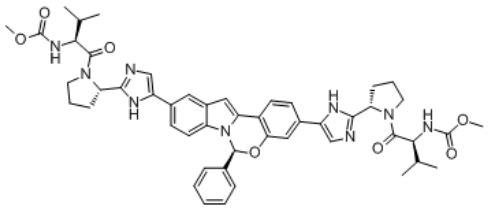
Product Data Sheet

Product Name: Elbasvir (MK-8742)
Cat. No.: GC32062

Chemical Properties

Cas. No.	1370468-36-2		
SMILES	O=C([C@H](C(C)C)NC(OC)=O)N(CCC1)[C@@H]1C(N2)=NC=C2C(C=C3)=CC4=C3C5=CC6=CC(C7=CN=C([C@H]8N(C([C@H](C(C)C)NC(OC)=O)=O)CCC8)N7)=CC=C6N5[C@H](C9=CC=CC=C9)O4		
Formula	$C_{49}H_{55}N_9O_7$	M.Wt	882.02
Solubility	DMSO : ≥ 50 mg/mL (56.69 mM);Water : < 0.1 mg/mL (insoluble)	Storage	Store at -20°C
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

Elbasvir (MK-8742) is a hepatitis C virus nonstructural protein 5A (HCV NS5A) inhibitor with EC50s of 4, 3 and 3 nM against genotype 1a, 1b, and 2a, respectively.

Elbasvir shows potent activity against genotype 1a and 1b replicons, with EC90 of 0.006 nM for both

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the wild-type 1a_H77 and 1b_con1 replicons. Elbasvir inhibits genotype 3 replicons with EC90 of 0.12 nM. Elbasvir (0.06 nM, 0.6 nM, and 6 nM) demonstrates dose-dependent suppression of resistant genotype 1a replicons, illustrated by the reductions in colony counts at higher doses[1]. Elbasvir is highly potent against HCV replicons bearing NS5A sequences from GT1a, -1b, -2a(31L), -3a, -4a, -5a, and -6, with EC50s in the low-picomolar range[2].

[1]. Liu R, et al. Susceptibilities of genotype 1a, 1b, and 3 hepatitis C virus variants to the NS5A inhibitor Elbasvir. Antimicrob Agents Chemother. 2015 Nov;59(11):6922-6929. [2]. Lahser FC, et al. The Combination of Grazoprevir, a Hepatitis C Virus (HCV) NS3/4A Protease Inhibitor, and Elbasvir, an HCV NS5A Inhibitor, Demonstrates a High Genetic Barrier to Resistance in HCV Genotype 1a Replicons. Antimicrob Agents Chemother. 2016 A

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