

# VX-222

**Catalog No: tcsc0268**



## Available Sizes

**Size:** 5mg

**Size:** 10mg

**Size:** 50mg



## Specifications

**CAS No:**

1026785-59-0

**Formula:**

$C_{25}H_{35}NO_4S$

**Pathway:**

Metabolic Enzyme/Protease;Anti-infection

**Target:**

HCV Protease;HCV

**Purity / Grade:**

>98%

**Solubility:**

DMSO :  $\geq 32$  mg/mL (71.81 mM)

**Alternative Names:**

VCH-222

**Observed Molecular Weight:**

445.61

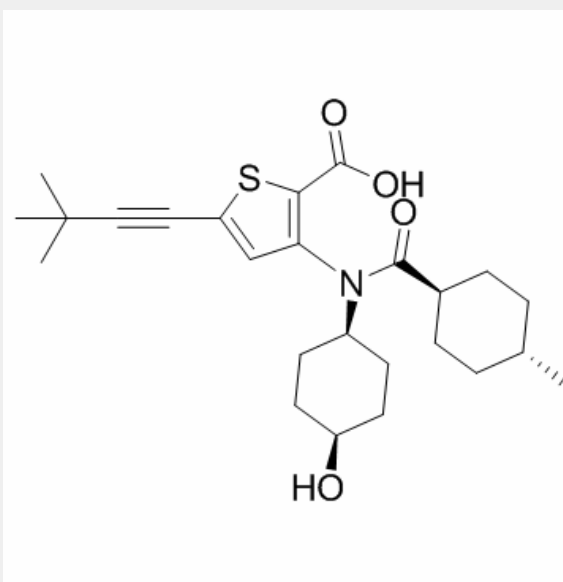
## Product Description

VX-222 (VCH-222) is a novel, potent and selective inhibitor of HCV polymerase with IC<sub>50</sub> of 0.94-1.2  $\mu$ M, 15.3-fold less effective for mutant M423T, and 108-fold less effective for mutant I482L.

IC<sub>50</sub> Value: 0.94  $\mu$ M (HCV NS5B 1a); 1.2  $\mu$ M (HCV NS5B 1b)

Target: HCV

VX-222 is a small molecule non-nucleoside inhibitor of HCV NS5B polymerase that is being investigated for the treatment of hepatitis C virus infection. VX-222 exhibits non-competitive and selective inhibition in HCV NS5B of genotype 1a and 1b, with IC<sub>50</sub> of 0.94 and 1.2  $\mu$ M, respectively. VX-222 selectively inhibits the replication of subgenomic HCV genotype 1a and 1b with an EC<sub>50</sub> of 22.3 and 11.2 nM, respectively. [1] Similarly, a recent study shows that VX-222 inhibits the 1b/Con1 HCV subgenomic replicon, with an EC<sub>50</sub> of 5 nM. In rats and dogs, VCH-222 displays fine pharmacokinetic profile, including low total body clearance and excellent oral bioavailability (greater than 30%) and good ADME properties. VCH-222 is biotransformed by several enzymes (CYP1A1, 2A6, 2B6, 2C8, CYP 3A4, UGT1A3) and is predicted to be actively transported in liver and excreted mainly intact in bile or as glucuronide adducts.



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