

Product Name: Telaprevir

Catalog No.: 6658

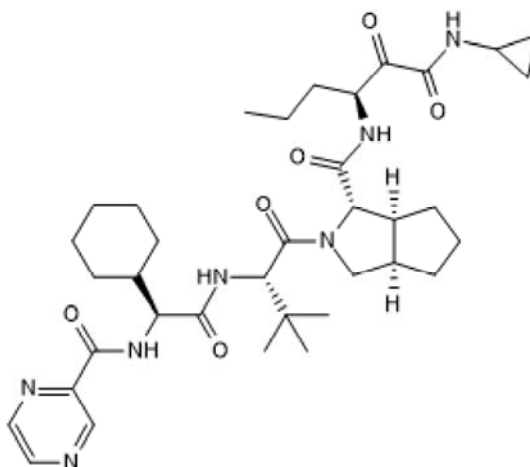
Batch No.: 1

CAS Number: 402957-28-2

IUPAC Name: (1S,3aR,6aS)-(2S)-2-Cyclohexyl-N-(2-pyrazinylcarbonyl)glycyl-3-methyl-L-valyl-N-[(1S)-1-[2-(cyclopropylamino)-2-oxoacetyl]butyl]octahydrocyclopenta[c]pyrrole-1-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₆H₅₃N₇O₆
Batch Molecular Weight: 679.85
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.6	7.86	14.42
Found	63.5	7.88	14.38

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Hepatitis C virus (HCV) protease NS3/4A inhibitor. Orally bioavailable. Inhibits HCV RNA replication in vitro (IC₅₀ = 0.35 μM). Also used in Stabilizable Polypeptide Linkages (StaPLs) chemogenetic platform, for pharmacological regulation of protein expression/function. StaPL sequences can be engineered into target proteins rendering them functional only in the presence of Telaprevir. Plasmid vectors for the transfection of cells with StaPLs are available from Addgene.

Physical and Chemical Properties:

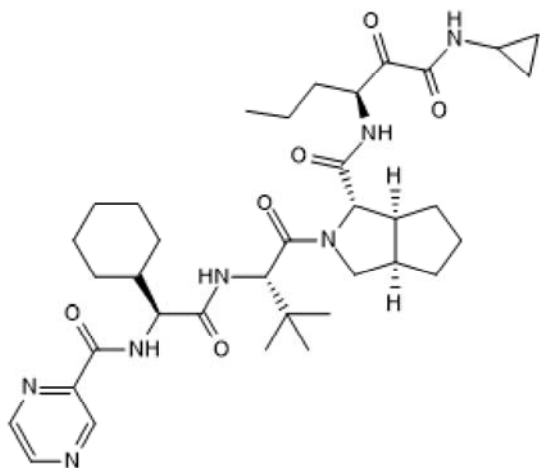
Batch Molecular Formula: C₃₆H₅₃N₇O₆

Batch Molecular Weight: 679.85

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Jacobs *et al* (2018) StaPLs: versatile genetically encoded modules for engineering drug-inducible proteins. *Nat.Methods* **15** 523. PMID: 29967496.

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