

**Product Name:** Telaprevir

**Catalog No.:** 6658

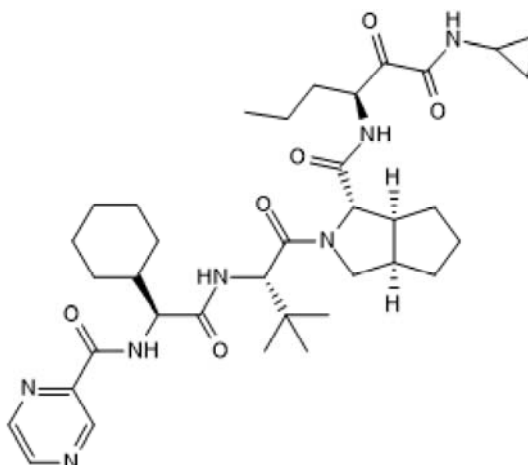
**Batch No.:** 1

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

<b>Batch Molecular Formula:</b>	C <sub>36</sub> H <sub>53</sub> N <sub>7</sub> O <sub>6</sub>
<b>Batch Molecular Weight:</b>	679.85
<b>Physical Appearance:</b>	White solid
<b>Solubility:</b>	DMSO to 100 mM
<b>Storage:</b>	Store at -20°C
<b>Batch Molecular Structure:</b>	



## 2. ANALYTICAL DATA

<b>HPLC:</b>	Shows 99% purity
<b><sup>1</sup>H NMR:</b>	Consistent with structure
<b>Mass Spectrum:</b>	Consistent with structure
<b>Microanalysis:</b>	

	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:**

Telaprevir is a hepatitis C virus (HCV) protease NS3/4A inhibitor. Orally bioavailable. Inhibits HCV RNA replication in vitro (IC<sub>50</sub> = 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:**

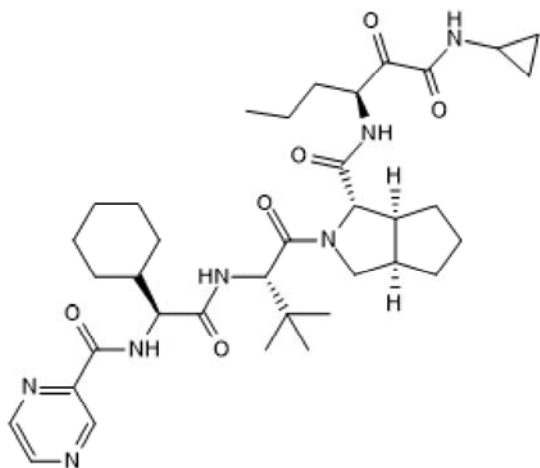
Batch Molecular Formula: C<sub>36</sub>H<sub>53</sub>N<sub>7</sub>O<sub>6</sub>

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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