**Product Specification Sheet**

**Product Name:** VX-950 (Telaprevir)  
**Catalog Number:** C8995

### Technical information:
- **Chemical Formula:** C_{30}H_{53}N_{7}O_{6}  
- **CAS #:** 402957-28-2  
- **Molecular Weight:** 679.85  
- **Purity:** > 98%  
- **Appearance:** White solid  
- **Solubility:** Soluble in DMSO up to 100 mM  
- **Chemical Name:** (1S,3aR,6aS)-2-((S)-2-((S)-2-cyclohexyl-2-(pyrazine-2-carboxamido)acetamido)-3,3-dimethylbutanoyl)-N-((S)-1-(cyclopropylamino)-1,2-dioxohexan-3-yl)-octahydrocyclopenta[c]pyrrole-1-carboxamide  
- **Storage:** Store solid powder at 4°C desiccated; Store DMSO solution at -20°C.  
- **Shelf Life:** In the unopened package, powder is stable for 1 year and DMSO solution is stable for 6 months under proper storage condition.

### Handling:
- To make 10 mM stock solution, add 0.147mL of DMSO for each mg of VX-950 (Telaprevir).  
- For DMSO solution, briefly spin the vial at 500 rpm in a 50 mL conical tube to ensure maximum sample recovery.

### Biological Activity:
VX-950 (Telaprevir) is an orally-available, highly-selective, reversible, peptidomimetic inhibitor of HCV NS3-4A protease with an IC50 of 0.35 μM and IC90 of 0.83 μM in an HCV replicon assay [1, 2]. In human fetal hepatocytes with genotype 1a HCV-positive patient serum, VX-950 has an IC50 of 280 μM. [3] VX-950 reduces HCV RNA levels in a time- and dose-dependent manner with IC50s of 0.57, 0.49, 0.21, and 0.14 μM following a 24-, 48-, 72-, and 120-h incubation.

VX-950 forms a covalent, but reversible complex in a slow-on, slow-off process with a steady-state inhibition constant (Ki) of 7 nM. [3] Excellent efficacy with high liver exposure in an HCV NS3-4A mouse model was observed with VX-950.

### Reference:

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**To reorder:** [http://www.cellagentech.com/VX-950-Telaprevir/](http://www.cellagentech.com/VX-950-Telaprevir/)  
**For Technical Support:** [technical@cellagentech.com](mailto:technical@cellagentech.com)

*Chemicals are sold for research use only, not for clinical or diagnostic use.*