

Product Data Sheet

Product Name: Telaprevir-d4

Cat. No.: GC48136

Chemical Properties

Cas. No. N/A

SMILES O=C(N[C@@H](C1CCCCC1)C(N[C@@H](C(C)(C)C)C(N2[C@H](C(N[C@H](C(C(NC3C([2H])([2H])C3([2H])([2H])=O)=O)CCC)=O)[C@](CCC4)([H])[C@]4([H])C2)=O)=O)C5=NC=CN=C5

Formula C36H49D4N7O6

M.Wt 683.9

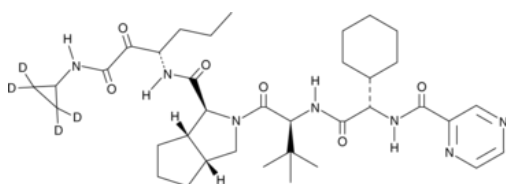
Solubility Methanol: slightly

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

Telaprevir-d₄ is intended for use as an internal standard for the quantification of telaprevir by GC- or LC-MS. Telaprevir is an inhibitor of hepatitis C virus (HCV) nonstructural protease 3/4A (NS3/4A; K_i = 7 nM).¹ It inhibits viral replication in genotype 1b HCV replicon cells and isolated human fetal hepatocytes infected with genotype 1a HCV-positive patient sera (IC₅₀s = 354 and 280 nM, respectively). Telaprevir (10-300 mg/kg) reduces plasma levels of a secreted placental alkaline phosphatase (SEAP) reporter gene in a mouse model of HCV NS3/4A protease activity. Formulations containing telaprevir have been used in the treatment of HCV.

1. Perni, R.B., Almquist, S.J., Byrn, R.A., et al. Preclinical profile of VX-950, a potent, selective, and orally bioavailable inhibitor of hepatitis C virus NS3-4A serine protease. *Antimicrob. Agents Chemother.* 50(3):899-909 (2006)

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

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