

Product Data Sheet

Product Name: Saquinavir-d9

Cat. No.: GC45974

Chemical Properties

Cas. No. 1356355-11-7

SMILES O=C(N[C@@H](CC(N)=O)C(N[C@@H](CC1=CC=CC=C1)[C@H](O)CN2C[C@](CCC3)([H])[C@]3([H])C[C@H]2C(NC(C([2H])([2H])[2H])(C([2H])([2H])[2H])C([2H])([2H])[2H])=O)=O)C4=NC(C=CC=C5)=C5C=C4

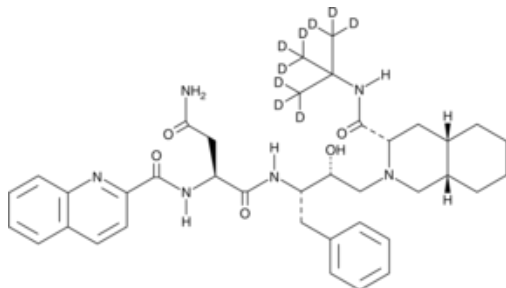
Formula C38H41D9N6O5 M.Wt 679.9

Solubility Chloroform: soluble, Methanol: soluble 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

Saquinavir-d9 is intended for use as an internal standard for the quantification of saquinavir by GC- or LC-MS. Saquinavir is an HIV protease inhibitor ($K_{is} = 0.12$ and <0.1 nM for HIV-1 and HIV-2 protease, respectively) that exhibits antiviral activity with low cytotoxicity.^{1,2} When co-administered with ritonavir, the bioavailability of saquinavir (20 mg/kg) has been shown to increase 325-fold in mice through a mechanism that inhibits its metabolism by CYP3A.³

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

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[1. Roberts, N.A., Martin, J.A., Kinchington, D., et al. Rational design of peptide-based HIV proteinase inhibitors. Science 248(4953), 358-361 (1990).|2. Tucker, T.J., Lumma, W.C., Jr., Payne, L.S., et al. A series of potent HIV-1 protease inhibitors containing a hydroxyethyl secondary amine transition state isostere: Synthesis, enzyme inhibition, and antiviral activity. J. Med. Chem. 35(14), 2525-2533 (1992).|3. Tomaru, A., Takeda-Morishita, M., Banba, H., et al. Analysis of the pharmacokinetic boosting effects of ritonavir on oral bioavailability of drugs in mice. Drug Metab. Pharmacokinet. 28(2), 144-152 (2013).

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