

Product Data Sheet

Product Name: Indinavir-d6

Cat. No.: GC47455

Chemical Properties

Cas. No. 185897-02-3

SMILES CC(C)(NC([C@H](C1)N(C[C@H](C[C@H](C(N[C@H]2C3=C(C[C@H]2O)C=CC=C3)=O)CC4=CC=CC=C4)O)CCN1C([2H])([2H])C5=C([2H])N=C([2H])C([2H])=C5[2H])=O)C

Formula C36H41D6N5O4

M.Wt 619.8

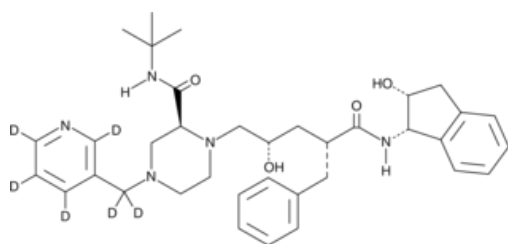
Solubility Acetonitrile: soluble, DMSO: soluble, Methanol: soluble

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

Indinavir-d₆ is intended for use as an internal standard for the quantification of indinavir by GC- or LC-MS. Indinavir is an HIV-1 protease inhibitor ($K_i = 0.358$ nM).¹ It is selective for HIV-1 protease over HIV-2 protease ($K_i = 3.316$ nM), as well as human cathepsin D, porcine pepsin, bovine chymosin, human plasma renin, Factor Xa, and elastase at 10 μ M. It is also selective for wild-type HIV-1 protease over the protease inhibitor-resistant mutants A-44, K-60, and V-18 (K_i s = 0.24, 15, 50, and 40 nM, respectively).² Indinavir is active against multiple HIV-1 variants in cell-based assays (IC_{95} s = 12-100 nM).¹ Formulations containing indinavir have been used in combination with antiretroviral agents in the treatment of HIV infection.

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

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1. Vacca, J.P., Dorsey, B.D., Schleif, W.A., et al. L-735,524: An orally bioavailable human immunodeficiency virus type 1 protease inhibitor. *Proc. Natl. Acad. Sci. U.S.A.* 91(9):4096-4100 (1994)
2. Dorsey, B.D., McDonough, C., McDaniel, S.L., et al. Identification of MK-944a: A second clinical candidate from the hydroxylaminepentanamide isostere series of HIV protease inhibitors. *J. Med. Chem.* 43(18):3386-3399 (2000)

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