

Ritonavir-d6(利托那韦 d6)

产品描述

Ritonavir-d6 is intended for use as an internal standard for the quantification of ritonavir by GC- or LC-MS. Ritonavir is an HIV protease inhibitor. It inhibits recombinant HIV-1 protease by 79% when used at a concentration of 0.5 nM. It inhibits HIV-13B-induced cell death in MT-4 human T cell leukemia cells (EC₅₀ = 25 nM) as well as cell death induced by HIV-1LAI, HIV-2ROD, and HIV-2EHO in human MT-2 cells (IC₅₀s = 0.045, 0.13, and 0.24 μM, respectively). Ritonavir also inhibits the cytochrome P450 (CYP) isoform CYP3A (IC₅₀ = 0.14 μM). It inhibits CYP-mediated oxidative metabolism of the HIV protease inhibitors saquinavir, indinavir, nelfinavir, and amprenavir in rat and human liver microsomes in a concentration-dependent manner. Ritonavir (10 mg/kg) also prevents decreases in plasma levels of these four compounds in rats. Formulations containing ritonavir have been used in the treatment of HIV-1 infection.

化学数据

Catalog No.: MR720201

Cas No.: 1217720-20-1

分子式: C₃₇H₄₂D₆N₆O₅S₂

分子量: 727

Purity: >99.00%

溶解度: Chloroform: Slightly Soluble, DMSO: Slightly Soluble, Methanol: Slightly Soluble

储存条件: 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.

Shipping Condition: Evaluation sample solution: ship with blue ice

All other available size: ship with RT, or blue ice upon request

Chemical Structure:

