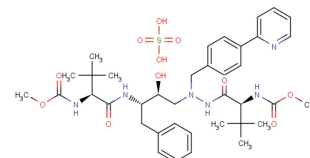


Catalog Number: CM04619

产品信息

Catalog Number:
CM04619CAS号:
229975-97-7分子式:
 $C_{38}H_{52}N_6O_7 \cdot H_2SO_4$ 主要靶点:
HIV Protease|P-gp|P450|SARS-CoV主要通路:
蛋白酶体|代谢|离子通道|神经科学|微生物学分子量:
802.93溶解度:
H₂O:<1 mg/mL, Ethanol:<1 mg/mL, DMSO:96 mg/mL (119.6 mM)

靶点活性

HIV protease:2.66 nM(Ki)

体内活性

30 mM Atazanavir 作用于 LS180V 细胞, 免疫反应的 P-gp 表达提高 2.5 倍, 细胞内 Rh123 降低。Atazanavir 抑制 U251, T98g 和 LN229 胶质母细胞瘤细胞系的细胞生长, 显著地提高 GRP78 和 CHOP 蛋白水平。Atazanavir 也抑制人类 20S proteasome 蛋白酶体。Atazanavir 作用于 U251 胶质瘤细胞, 各种不同大小的多聚泛素化蛋白质明显增加。Atazanavir 作用于病毒感染的 H9 细胞, 抑制病毒 gag 前体 p55 聚合蛋白的蛋白水解裂解, IC₅₀ 为 ~47 nM。Atazanavir 作用于 RF/MT-2 株, 具有有效的抗病毒活性, EC₅₀ 为 3.89 nM。30 μM Atazanavir 作用于 HepG2 细胞, 改变内质网应激的幅度和 UPR 基因表达。

细胞实验

To determine cytotoxicity, host cells are incubated in the presence of serially diluted Atazanavir for 6 days and cell viability is quantitated using an XTT[2,3-bis(2-methoxy-4-nitro-5-sulphophenyl)-2H-tetrazolium-5-carboxanilide] assay to calculate the 50% cytotoxic concentrations (CC₅₀s). To assess the effect of human serum proteins on antiviral activity, the 10% fetal calf serum normally used for assays is replaced with 40% adult human serum or 1 mg of α 1-acid glycoprotein/mL (Only for Reference)

描述

Atazanavir sulfate is an azapeptide and HIV-PROTEASE INHIBITOR that is used in the treatment of HIV INFECTIONS and AIDS in combination with other ANTI-HIV AGENTS.

储存

Powder: -20°C for 3 years | In solvent: -80°C for 2 years