For Research Use Only

Temsavir

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Catalog Number: CM04600

产品信息

Catalog Number:
CM04600

CAS号:
701213-36-7

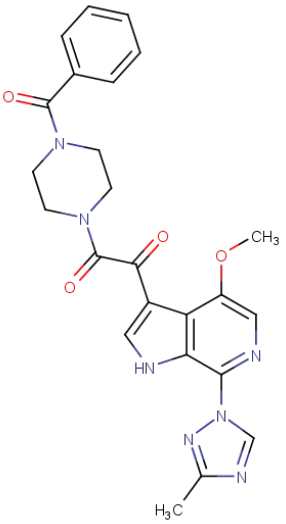
分子式:
$C_{24}H_{23}N_7O_4$

主要靶点:
HIV Protease

主要通路:
微生物学|蛋白酶体

分子量:
473.48

溶解度:
DMSO:16.67 mg/mL



体外活性

BMS-626529 has half-maximal effective concentration (EC50) values of <10 nM against the vast majority of viral isolates. BMS-626529 exhibits an average EC50 against LAI virus of 0.7±0.4 nM. BMS-626529 exhibits an EC50 of 0.01 nM against the most susceptible virus and an EC50 of >2,000 nM against the least susceptible virus. The cytotoxicity profile of BMS-626529 is examined in several cell types from different human tissues. CC50 values of >200 μM are observed in MT-2 (T lymphocytes), HEK293 (kidney), HEp-2 (larynx), HepG2 (liver), HeLa (cervix), HCT116 (colorectal), MCF-7 (breast), SK-N-MC (neuroepithelium), HOS (bone), H292 (lung), and MDBK (bovine kidney) cells measured after 3 or 6 days in culture. CC50 values of 105 and 192 μM are obtained in the T-cell line PM1 and in PBMCs, respectively, following 6 days in culture. These results show that BMS-626529 exhibits low cytotoxicity in cell culture[1]. BMS-626529 exhibits a broad spectrum of antiviral activity against a panel of clinical isolates, with a 50% inhibitory concentration (IC50) ranging from subnanomolar levels to >0.1 μM[2].

细胞实验

Cytotoxicity assays are performed in the presence of serially diluted BMS-626529 for up to 6 days, and cell viability is quantitated using an XTT assay. To determine CC50?values (concentration of drug required to kill 50% of cells), laboratory-adapted peripheral blood mononuclear cells (PBMCs) are initially plated at a density of 0.1×106?cells/mL. In the absence of compounds, the cell densities typically reach 1×106?to 1.2×106/mL after 6 days[1].

描述

BMS-626529 is a novel attachment inhibitor that targets HIV-1 gp120 and prevents its binding to CD4+ T cells.

储存

Powder: -20°C for 3 years | In solvent: -80°C for 1 year