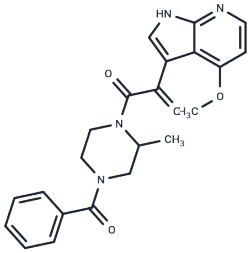
Data Sheet (Cat.No.T22609)

BMS-378806.

Chemical Properties



CAS No. :

Formula: C22H22N4O4

Molecular Weight: 406.43

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	BMS-378806 is a novel attachment inhibitor of HIV (EC50: 2.68±1.64nM, 26.5±3.5nM, 2.94 ±2.01nM,15.5±6.8nM, 3.46±0.81nM, 1.47±0.63nM and 0.85±0.13nM for LAI(T), SF-2(T), NL4-3(T), Bal(M), SF-162(M), JRFL(M) and TLAV(dual), respectively).
Targets(IC50)	Others,HIV Protease
In vitro	In a series of in vitro biochemical assay, BMS-378806 has been found to be not an effective inhibitor of HIV integrase, protease, or reverse transcriptase, but compete with soluble CD4 binding to a monomeric form of gp120 protein in an ELISA assay with an IC50 value of ~100nM. In addition, BMS-378806 has shown no overt cytotoxicity toward the host cell with a CC50 value of >225μM [1].

Solubility Information

Solubility	DMSO: ≥20.2 mg/mL,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 2 mg/mL (4.92 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4604 mL	12.3022 mL	24.6045 mL
5 mM	0.4921 mL	2.4604 mL	4.9209 mL
10 mM	0.246 mL	1.2302 mL	2.4604 mL
50 mM	0.0492 mL	0.246 mL	0.4921 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Poindexter GS, Bruce MA, LeBoulluec KL, et al. Dihydropyridine neuropeptide Y Y(1) receptor antagonists. Bioorganic & medicinal chemistry letters. 2002;12(3):379-382.
Antal-Zimanyi I, Bruce MA, Leboulluec KL, et al. Pharmacological characterization and appetite suppressive properties of BMS-193885, a novel and selective neuropeptide Y(1) receptor antagonist. European journal of pharmacology. 2008;590(1-3):224-232.

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