Data Sheet (Cat.No.T22609)

TargetMol
A DRUG SCREENING EXPERT

BMS-378806

Chemical Properties

CAS No.:	T22609
Formula:	C22H22N4O4
Molecular Weight:	406.43
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

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).
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: ≥20.2mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.46 mL	12.302 mL	24.604 mL
5 mM	0.492 mL	2.46 mL	4.921 mL
10 mM	0.246 mL	1.23 mL	2.46 mL
50 mM	0.049 mL	0.246 mL	0.492 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Poindexter GS, Bruce MA, LeBoulluec KL, et al. Dihydropyridine neuropeptide Y Y(1) receptor antagonists. Bioorganic & medicinal chemistry letters. 2002;12(3):379-382.
2. 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.

Inhibitors · Natural Compounds · Compound Libraries

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