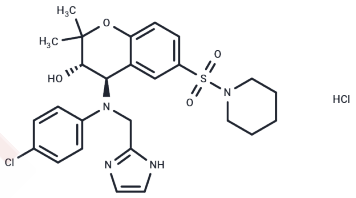
Data Sheet (Cat.No.T26843)

TargetMol

BMS-199264 hydrochloride

Chemical Properties



CAS No. :	186180-83-6
Formula:	C26H32Cl2N4O4S
Molecular Weight:	567.53
Storage:	Keep away from moisture 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-199264 hydrochloride is the salt form of BMS-199264.BMS-199264 is a potent and selective inhibitor of mitochondrial F1F0 ATP hydrolase with an IC50=0.5 μM.BMS-199264 is able to inhibit the decline of ATP during myocardial ischemia, reduce myocardial necrosis, and enhance the recovery of myocardial contractile function after reperfusion.
Targets(IC50)	ATPase
In vitro	BMS-199264 hydrochloride selectively inhibits the hydrolase activity of mitochondrial F_1F_0 ATP synthase in vitro (IC_{50} = 0.5 μM), without significant effects on its synthase activity or ATP-sensitive potassium channels. [1]
In vivo	BMS-199264 hydrochloride exhibited in an isolated rat heart ischemia model: hearts were pretreated with 3μM BMS-199264 hydrochloride for 10 minutes before global ischemia. After 15 minutes of ischemia, mitochondrial F_1F_0 ATP synthase activity was measured, showing that BMS-199264 hydrochloride selectively inhibited hydrolase activity without affecting synthase function.[1]

Solubility Information

Solubility	DMSO: 80 mg/mL (140.96 mM),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: 3.3 mg/mL (5.81 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	1.762 mL	8.8101 mL	17.6202 mL
5 mM	0.3524 mL	1.762 mL	3.524 mL
10 mM	0.1762 mL	0.881 mL	1.762 mL
50 mM	0.0352 mL	0.1762 mL	0.3524 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

Grover GJ, Malm J. Pharmacological profile of the selective mitochondrial F1F0 ATP hydrolase inhibitor BMS-199264 in myocardial ischemia. Cardiovasc Ther. 2008 Winter;26(4):287-96.