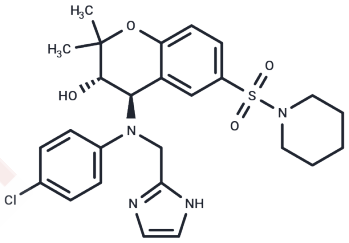
Data Sheet (Cat.No.T26843L)

TargetMol

BMS 199264

Chemical Properties



CAS No. : 675833-20-2

Formula: C26H31ClN4O4S

Molecular Weight: 531.07

Storage: Store at low temperature
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 (IC50=0.5 μM) without affecting ATP synthetase, thus preventing ATP reduction to ameliorate cardiac necrosis during ischemia, and is commonly used in studies of the cardiovascular system.
Targets(IC50)	ATPase
In vitro	BMS 199264 (1-10 μM) preserves ATP in rat hearts during ischemia but does not affect pre-ischemic contractile function or ATP concentrations. BMS 199264 replenishes reperfusion ATP levels more rapidly and reduces necrosis. BMS 199264 selectively inhibits ATP hydrolase activity in vitro. [2]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.883 mL	9.415 mL	18.8299 mL
5 mM	0.3766 mL	1.883 mL	3.766 mL
10 mM	0.1883 mL	0.9415 mL	1.883 mL
50 mM	0.0377 mL	0.1883 mL	0.3766 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, et al. Pharmacological profile of the selective mitochondrial F1F0 ATP hydrolase inhibitor BMS-199264 in myocardial ischemia. Cardiovasc Ther. 2008 Winter;26(4):287-96.

Grover GJ, et al. Excessive ATP hydrolysis in ischemic myocardium by mitochondrial F1F0-ATPase: effect of selective pharmacological inhibition of mitochondrial ATPase hydrolase activity. Am J Physiol Heart Circ Physiol. 2004 Oct;287(4):H1747-55.

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