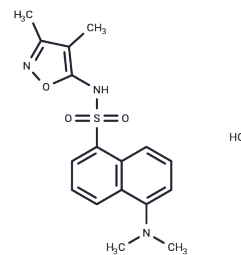


BMS 182874 hydrochloride

Chemical Properties

CAS No. :	1215703-04-0
Formula:	C ₁₇ H ₂₀ ClN ₃ O ₃ S
Molecular Weight:	381.88
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 182874 hydrochloride is a nonpeptide endothelin (ET) receptor antagonist.
Targets(IC50)	Endothelin Receptor
In vitro	BMS-182874 inhibited ET-1-stimulated inositol phosphate accumulation (KB 75 nM) and calcium mobilization (K _i = 140 nM) without suppressing the maximal responses in VSM-A10 cells. BMS-182874 competitively inhibited the binding of [¹²⁵ I]ET-1 to ETA receptors in rat vascular smooth muscle A10 (VSM-A10) cell membranes (K _i = 61 nM) and in CHO cells stably expressing the human ETA receptor (K _i = 48 nM), but was a weak inhibitor at ETB receptors (K _i > 50 μM) and non-ET receptors.
In vivo	BMS-182874 blunted the pressor response to exogenous ET-1 when administered either orally (ED ₅₀ = 30 μmol/kg) or intravenously (ED ₅₀ = 24 μmol/kg) to conscious, normotensive rats.

Solubility Information

Solubility	DMSO: 50 mg/mL (130.93 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6186 mL	13.0931 mL	26.1862 mL
5 mM	0.5237 mL	2.6186 mL	5.2372 mL
10 mM	0.2619 mL	1.3093 mL	2.6186 mL
50 mM	0.0524 mL	0.2619 mL	0.5237 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

MARIA L WEBB, J. EILEEN BIRD, EDDIE C. K. LIU, PATRICIA M. ROSE, RANDY SERAFINO, PHILIP D. STEIN and SUZANNE MORELAND. BMS-182874 is a selective, nonpeptide endothelin ETA receptor antagonist. JPET 272:1124-1134, 1995.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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