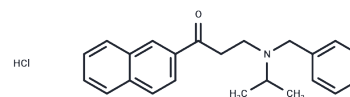


ZM39923 hydrochloride

Chemical Properties

CAS No. :	1021868-92-7
Formula:	C ₂₃ H ₂₅ NO·HCl
Molecular Weight:	367.91
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	ZM39923 hydrochloride (JAK3 Inhibitor IV) is an JAK1/3 inhibitor with pIC ₅₀ of 4.4/7.1, almost no activity to JAK2 and modestly potent to EGFR; also found to be sensitive to transglutaminase.
Targets(IC ₅₀)	EGFR,Others,JAK
In vitro	The selectivity of Rotigotine for D ₃ (pK _i 9.2) receptors is higher 10-fold than D ₂ /D ₄ /D ₅ (pK _i 8.5-8.0) and 100-fold than D ₁ receptors (pK _i 7.2). Rotigotine (10 μM) decreases the number of THir neurons by 40% in primary mesencephalic cell culture. In functional studies, Rotigotine behaves as a full agonist at all dopamine receptors but notably, the potency for stimulation of D ₁ receptors is similar to that for D ₂ /D ₃ receptors (pEC ₅₀ respectively: 9.0, 9.4-8.6, 9.7). Rotigotine (0.01 μM) slightly protects dopaminergic neurons against MPP ⁺ toxicity, significantly protects dopaminergic neurons against rotenone-induced cell death, and significantly inhibits ROS production by rotenone.

Solubility Information

Solubility	Ethanol: 8 mg/mL (21.74 mM), DMSO: 28 mg/mL (76.1 mM), H ₂ O: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7181 mL	13.5903 mL	27.1806 mL
5 mM	0.5436 mL	2.7181 mL	5.4361 mL
10 mM	0.2718 mL	1.359 mL	2.7181 mL
50 mM	0.0544 mL	0.2718 mL	0.5436 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.

Reference

Brown GR, et al. Bioorg Med Chem Lett. 2000, 10(6), 575-579.

Lai TS, et al. Chem Biol, 2008, 15(9), 969-978.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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