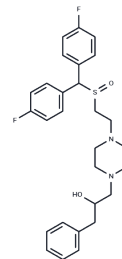


JJC8-088

Chemical Properties

CAS No. : 1627576-82-2
 Formula: C₂₈H₃₂F₂N₂O₂S
 Molecular Weight: 498.63
 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	JJC8-088, a potent DAT inhibitor, is derived from Modafinil and serves as a novel ligand. This compound is utilized in research on psychostimulant use disorders [1].
Targets(IC50)	Dopamine Receptor
In vivo	JJC8-088, administered intraperitoneally at doses of 3-30 mg/kg for 30 to 120 minutes, effectively reduces compulsive methamphetamine self-administration in rats and enhances their locomotor activity [1]. Additionally, JJC8-088, given at 0-30 mg/kg intraperitoneally 30 minutes prior to testing, induces a rapid and significant increase in extracellular dopamine (DA) levels in rats with a history of cocaine self-administration [2]. Animal Model: Methamphetamine-addicted male Wistar rats (6-8 weeks old; weighing 200-250 g) [1]. Dosage: 0/3/10/30 mg/kg. Administration: intraperitoneal. Result: The half-life of JJC8-088 is 39 minutes, with low concentrations observed in both brain and plasma.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0055 mL	10.0275 mL	20.055 mL
5 mM	0.4011 mL	2.0055 mL	4.011 mL
10 mM	0.2005 mL	1.0027 mL	2.0055 mL
50 mM	0.0401 mL	0.2005 mL	0.4011 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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