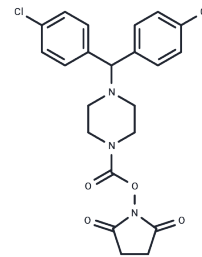


MJN110

Chemical Properties

CAS No. : 1438416-21-7
 Formula: C₂₂H₂₁Cl₂N₃O₄
 Molecular Weight: 462.33
 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	MJN110 (Cravatt Reagent) is a potent and selective MAGL inhibitor. Cravatt Reagent inhibits MAGL (IC ₅₀ = 9.1 nM). MJN110(Cravatt Reagent) Produces Opioid-Sparing Effects in a Mouse Neuropathic Pain Model.
Targets(IC ₅₀)	MAGL,Lipase
In vivo	The Selective Monoacylglycerol Lipase Inhibitor Cravatt Reagent Produces Opioid-Sparing Effects in a Mouse Neuropathic Pain Model.
Animal Research	For repeated administration experiments, mice were given vehicle, 0.0818 mg/kg MJN110, 0.469 or 10 mg/kg morphine, or a combination of 0.0818 mg/kg Cravatt Reagent and 0.469 mg/kg morphine twice daily for 5.5 days. Then, mice underwent behavioral testing on day 6. The combination of 0.0818 mg/kg MJN110 and 0.469 mg/kg morphine produced significant antinociceptive effects.

Solubility Information

Solubility	DMSO: 27.5 mg/mL (59.48 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: 2 mg/mL (4.33 mM),Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.163 mL	10.8148 mL	21.6296 mL
5 mM	0.4326 mL	2.163 mL	4.3259 mL
10 mM	0.2163 mL	1.0815 mL	2.163 mL
50 mM	0.0433 mL	0.2163 mL	0.4326 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

Wilkerson J L , Niphakis M J , Grim T W , et al. The selective monoacylglycerol lipase inhibitor MJN110 produces opioid sparing effects in a mouse neuropathic pain model[J]. Journal of Pharmacology and Experimental Therapeutics, 2016:jpet.115.229971.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481