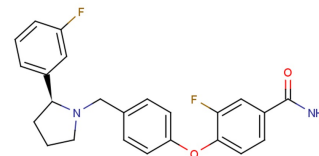


LY2444296

Chemical Properties

CAS No.: 1346133-11-6
Formula: C₂₄H₂₂F₂N₂O₂
Molecular Weight: 408.44
Appearance: N/A
Storage: 0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	LY2444296 exhibits anti-anxiety like effects. LY2444296 is an orally bioavailable, high-affinity and selective short-acting kappa opioid receptor (KOPR) antagonist, with a K _i value of ~1 nM.
Targets(IC ₅₀)	KOPR(ki): ki: ~1 nM
In vivo	LY2444296 reduces anxiety-like and depressive-like behaviors, as well as CORT release, in rats tested after chronic extended access cocaine self-administration, but not in cocaine-naïve rats[2]. LY2444296 displays anti-anxiety like effects in the EPM test[1]. LY2444296 (3 mg/kg; i.p.; 30 min before U69,593 administration) prevents behavioral and neuroendocrine effects caused by the reference kappa agonist U69,593 in cocaine-naïve rats[2].

Solubility Information

Solubility	Ethanol: 27.5 mg/mL (67.33 mM) MEthanol: 5 mg/mL (12.24 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.448 mL	12.242 mL	24.483 mL
5 mM	0.49 mL	2.448 mL	4.897 mL
10 mM	0.245 mL	1.224 mL	2.448 mL
50 mM	0.049 mL	0.245 mL	0.49 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

- Huang P, et al. Two short-acting kappa opioid receptor antagonists (zyklophin and LY2444296) exhibited different behavioral effects from the long-acting antagonist norbinaltorphimine in mouse anxiety tests. *Neurosci Lett*. 2016 Feb 26;615:15-20.
- Valenza M, et al. "Effects of the novel relatively short-acting kappa opioid receptor antagonist LY2444296 in behaviors observed after chronic extended-access cocaine self-administration in rats". *Psychopharmacology (Berl)*. 2017 Aug;234(15):2219-2231.

Inhibitors · Natural Compounds · Compound Libraries

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