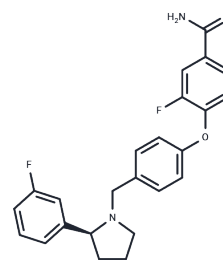


LY2444296

Chemical Properties

CAS No. : 1346133-11-6
 Formula: C₂₄H₂₂F₂N₂O₂
 Molecular Weight: 408.44
 Appearance: no data available
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	LY2444296 (FP3FBZ) is an orally active and selective antagonist of kappa opioid receptor ($K_i = 1$ nM).
Targets(IC ₅₀)	Opioid Receptor
In vivo	LY2444296 reduces anxiety-like and depressive-like behaviors, and CORT release, in rats tested after chronic extended access cocaine self-administration. In cocaine-naïve adult male Sprague Dawley rats, LY2444296 (3 mg/kg; i.p.) prevents behavioral and neuroendocrine effects caused by U69,593[2].

Solubility Information

Solubility	Ethanol: 25.2 mg/mL (61.7 mM), Sonication is recommended. Methanol: 5 mg/mL (12.24 mM), Sonication is recommended. DMSO: 60 mg/mL (146.9 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	2.4483 mL	12.2417 mL	24.4834 mL
5 mM	0.4897 mL	2.4483 mL	4.8967 mL
10 mM	0.2448 mL	1.2242 mL	2.4483 mL
50 mM	0.049 mL	0.2448 mL	0.4897 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

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.

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