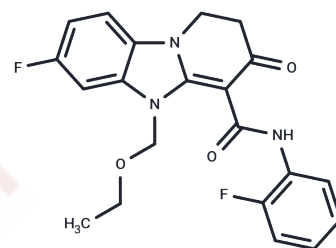


RWJ-51204

Chemical Properties

CAS No. : 205701-85-5
 Formula: C₂₁H₁₉F₂N₃O₃
 Molecular Weight: 399.39
 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	RWJ-51204 is a selective adenosine A2A receptor antagonist and a partial agonist of GABA(A) receptor (IC ₅₀ : 0.2-2 nM). It has neuroprotective and movement-improving effects and can be used in research related to Parkinson's disease.
Targets(IC ₅₀)	GABA Receptor
In vitro	RWJ-51204 binds to receptors with K _i ranging from 0.2 to 0.6 nM in the cerebral cortex, cerebellum, or medulla-spinal cord.[1]
In vivo	RWJ-51204 is effective in the conflict test in monkeys (ED ₅₀ of approximately 0.5 mg/kg p.o.). RWJ-51204 is orally active in anxiolytic efficacy tests. RWJ-51204 effectively impairs rotarod performance in rats (ED ₅₀ = 0.12 mg/kg), and all rats given RWJ-51204 orally at 30 mg/kg exhibit sedation, reduced skeletal muscle tone, and impairment of rotarod performance. [1]

Solubility Information

Solubility	DMSO: 4 mg/mL (10.02 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	2.5038 mL	12.5191 mL	25.0382 mL
5 mM	0.5008 mL	2.5038 mL	5.0076 mL
10 mM	0.2504 mL	1.2519 mL	2.5038 mL
50 mM	0.0501 mL	0.2504 mL	0.5008 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

Dubinsky B, et al. 5-ethoxymethyl-7-fluoro-3-oxo-1,2,3,5-tetrahydrobenzo[4,5]imidazo[1,2a]pyridine-4-N-(2-fluorophenyl)carboxamide (RWJ-51204), a new nonbenzodiazepine anxiolytic. *J Pharmacol Exp Ther.* 2002;303(2):777-790.

Wu WN, et al. Metabolism of the new nonbenzodiazepine anxiolytic agent, RWJ-51204, in mouse, rat, dog, monkey and human hepatic S9 fractions, and in rats, dogs and humans. *Eur J Drug Metab Pharmacokinet.* 2004;29(4):263-268.

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