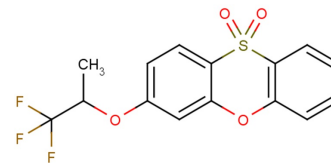


2614W94

Chemical Properties

CAS No.:	205187-35-5
Formula:	C ₁₅ H ₁₁ F ₃ O ₄ S
Molecular Weight:	344.31
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	2614W94 is a selective, competitive, and reversible inhibitor of monoamine oxidase-A with IC ₅₀ of 5 nM and K _i of 1.6 nM with serotonin as a substrate.
Targets(IC ₅₀)	Monoamine Oxidase: (K _i)1.6 nM
In vitro	2614W94 shows potent inhibitory activity against MAO-A but shows no inhibition of MAO-B at 30 nM.
In vivo	2614W94 (5 mg/kg, p.o.) causes an elevation of neurotransmitter amines in brain, in particular serotonin and norepinephrine, with a concomitant decrease in their oxidized metabolites. 2614W94 (5 mg/kg, p.o.) produces selective inhibition of MAO-A in brains and livers of rats. 2614W94 (0.5, 1, 2 mg/kg, p.o.) potentiates 5-hydroxytryptophan-induced head twitches in rats in a dose-dependent manner, with an extrapolated ED ₅₀ of 1.1 mg/kg.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.904 mL	14.522 mL	29.044 mL
5 mM	0.581 mL	2.904 mL	5.809 mL
10 mM	0.29 mL	1.452 mL	2.904 mL
50 mM	0.058 mL	0.29 mL	0.581 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

1. Helen L. White, et al. Biochemical and Pharmacologic Properties of 2614W94, a Reversible, Competitive Inhibitor of MonoamineOxidase-A. DRUG DEVELOPMENT RESEARCH 45:1-9 (1998).

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