

2614W94

Chemical Properties

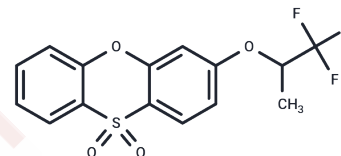
CAS No. : 205187-35-5

Formula: C₁₅H₁₁F₃O₄S

Molecular Weight: 344.31

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	2614W94 is a selective inhibitor of MAO-A with IC ₅₀ of 5 nM and K _i of 1.6 nM.
Targets(IC ₅₀)	MAO, Monoamine Oxidase
In vitro	2614W94 (30 nM) shows no inhibition of MAO-B[1].
In vivo	In rats, 2614W94 (5 mg/kg, p.o.) selectively inhibits MAO-A in brains and livers and elevates neurotransmitter amines in brain, in particular serotonin and norepinephrine, with a reduction of their oxidized metabolites. 2614W94 (0.5, 1, 2 mg/kg, p.o.) dose-dependently potentiates 5-hydroxytryptophan-induced head twitches with an extrapolated ED ₅₀ of 1.1 mg/kg[1].

Solubility Information

Solubility	DMSO: 45 mg/mL (130.7 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (5.81 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	2.9044 mL	14.5218 mL	29.0436 mL
5 mM	0.5809 mL	2.9044 mL	5.8087 mL
10 mM	0.2904 mL	1.4522 mL	2.9044 mL
50 mM	0.0581 mL	0.2904 mL	0.5809 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

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).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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