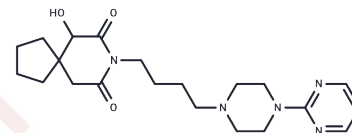


6-hydroxy Buspirone

Chemical Properties

CAS No. :	125481-61-0
Formula:	C ₂₁ H ₃₁ N ₅ O ₃
Molecular Weight:	401.50
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	6-Hydroxy Buspirone, an active metabolite of the anxiolytic compound buspirone, is produced via the cytochrome P450 (CYP) isoform CYP3A4. This compound exhibits affinity for the serotonin (5-HT) receptor subtype 5-HT _{1A} , demonstrating efficacy in the rat hippocampus and dorsal raphe with half-maximal effective concentrations (EC ₅₀ s) of 4 and 1 μM, respectively. Furthermore, 6-Hydroxy Buspirone acts as a potent antagonist against dopamine D ₂ , D ₃ , and D ₄ receptors with half-maximal inhibitory concentrations (IC ₅₀ s) of 3.1, 4.9, and 0.85 μM, respectively, and inhibits the organic cation transporters 1 (OCT1), OCT2, and OCT3 in S2 proximal tubule cells expressing human transporters, showcasing a concentration-dependent mechanism.
Targets(IC ₅₀)	5-HT Receptor,Dopamine Receptor,Drug Metabolite

Solubility Information

Solubility	Methanol: Soluble Ethanol: Soluble DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4907 mL	12.4533 mL	24.9066 mL
5 mM	0.4981 mL	2.4907 mL	4.9813 mL
10 mM	0.2491 mL	1.2453 mL	2.4907 mL
50 mM	0.0498 mL	0.2491 mL	0.4981 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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