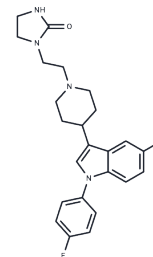


Sertindole

Chemical Properties

CAS No. :	106516-24-9
Formula:	C ₂₄ H ₂₆ ClFN ₄ O
Molecular Weight:	440.94
Storage:	Keep away from moisture, Store under nitrogen 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	Sertindole (Lu 23-174) is an atypical antipsychotic that binds to dopamine D2 receptors and serotonin (5-HT) receptor subtypes 5-HT1D, 5-HT2A, and 5-HT2C, with Kds of 2.7, 20, 0.14, and 6 nM, respectively.
Targets(IC50)	5-HT Receptor, Adrenergic Receptor, Autophagy, Dopamine Receptor
In vivo	In vivo, sertindole (10 mg/kg) increases extracellular dopamine, acetylcholine (ACh), and glutamate levels in the medial prefrontal cortex in conscious rats[1]. Sertindole (2.5 mg/kg) reverses ketamine-induced impairments in the extradimensional shift stage of the attentional set-shifting task (ASST) in rats[2]. It reverses phencyclidine (PCP)-induced selective reversal learning deficits in rats and subchronic PCP-induced deficits in the novel object recognition task in mice[3].
Animal Research	Rats were treated acutely with vehicle or drugs, and extracellular levels of neurotransmitters were assessed by microdialysis in freely moving animals[1].

Solubility Information

Solubility	DMSO: < 1 mg/mL (insoluble), 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	2.2679 mL	11.3394 mL	22.6788 mL
5 mM	0.4536 mL	2.2679 mL	4.5358 mL
10 mM	0.2268 mL	1.1339 mL	2.2679 mL
50 mM	0.0454 mL	0.2268 mL	0.4536 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

- M?Rk A , Witten L M , Arnt J . Effect of sertindole on extracellular dopamine, acetylcholine, and glutamate in the medial prefrontal cortex of conscious rats: a comparison with risperidone and exploration of mechanisms involved[J]. *Psychopharmacology*, 2009, 206(1):39-49.
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- Nikiforuk A , Popik P . Effects of quetiapine and sertindole on subchronic ketamine-induced deficits in attentional set-shifting in rats[J]. *Psychopharmacology*, 2012, 220(1):65-74.
- Idris N , Neill J , Grayson B , et al. Sertindole improves sub-chronic PCP-induced reversal learning and episodic memory deficits in rodents: involvement of 5-HT₆ and 5-HT_{2A} receptor mechanisms[J]. *Psychopharmacology*, 2010, 208(1):23-36.

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