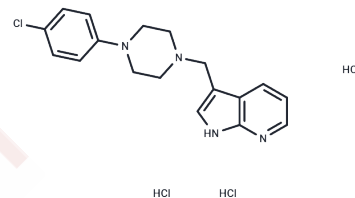


L-745870 trihydrochloride

Chemical Properties

CAS No. :	866021-03-6
Formula:	C ₁₈ H ₂₂ Cl ₄ N ₄
Molecular Weight:	436.21
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	L-745870 trihydrochloride is a highly potent and selective D4 dopamine receptor antagonist.
Targets(IC50)	5-HT Receptor, Adrenergic Receptor, Dopamine Receptor, Sigma receptor
In vivo	L-745870 has favorable pharmacokinetic properties in both rats and monkeys, and shows excellent brain permeability and a high brain-to-plasma ratio in rats [1]. L-745870 (10 mg/kg p.o.) at 30 mg/kg caused mild sedation and extrapyramidal motor symptoms, especially bradykinesia, following oral administration to squirrel monkeys. Lower doses of L-745870 had no apparent behavioral effects in monkeys [1].

Solubility Information

Solubility	DMSO: 50 mg/mL (114.62 mM), Sonication is recommended. H ₂ O: < 40 mg/mL, 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	2.2925 mL	11.4624 mL	22.9247 mL
5 mM	0.4585 mL	2.2925 mL	4.5849 mL
10 mM	0.2292 mL	1.1462 mL	2.2925 mL
50 mM	0.0458 mL	0.2292 mL	0.4585 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

Bristow LJ, et al. Schizophrenia and L-745,870, a novel dopamine D4 receptor antagonist. Trends Pharmacol Sci. 1997 Jun;18(6):186-8.

Kulagowski JJ, et al. 3-((4-(4-Chlorophenyl)piperazin-1-yl)-methyl)-1H-pyrrolo-2,3-b-pyridine: an antagonist with high affinity and selectivity for the human dopamine D4 receptor. J Med Chem. 1996 May 10;39(10):1941-2.

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