

L 741742 (free base)

Chemical Properties

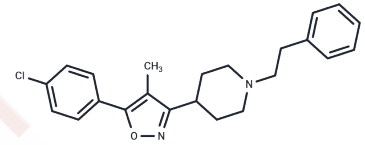
CAS No. : 156337-32-5

Formula: C₂₃H₂₅ClN₂O

Molecular Weight: 380.91

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 741742 is an effective and highly selective antagonist of the D4 dopamine receptor (K _i : 1700, 770, and 3.5 nM at cloned human D2, D3, and D4 receptors).
Targets(IC50)	Apoptosis,Others,Dopamine Receptor

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6253 mL	13.1265 mL	26.2529 mL
5 mM	0.5251 mL	2.6253 mL	5.2506 mL
10 mM	0.2625 mL	1.3126 mL	2.6253 mL
50 mM	0.0525 mL	0.2625 mL	0.5251 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

- Root DH, Hoffman AF, Good CH, Zhang S, Gigante E, Lupica CR, Morales M. Norepinephrine activates dopamine D4 receptors in the rat lateral habenula. *J Neurosci*. 2015 Feb 25;35(8):3460-9. doi: 10.1523/JNEUROSCI.4525-13.2015. PubMed PMID: 25716845; PubMed Central PMCID: PMC4339355.
- Bastianetto S, Danik M, Mennicken F, Williams S, Quirion R. Prototypical antipsychotic drugs protect hippocampal neuronal cultures against cell death induced by growth medium deprivation. *BMC Neurosci*. 2006 Mar 30;7:28. PubMed PMID: 16573831; PubMed Central PMCID: PMC1448194.
- Cao BJ, Rodgers RJ. Dopamine D4 receptor and anxiety: behavioural profiles of clozapine, L-745,870 and L-741,742 in the mouse plus-maze. *Eur J Pharmacol*. 1997 Sep 24;335(2-3):117-25. PubMed PMID: 9369363.
- Rowley M, Broughton HB, Collins I, Baker R, Emms F, Marwood R, Patel S, Patel S, Ragan CI, Freedman SB, Leeson PD. 5-(4-Chlorophenyl)-4-methyl-3-(1-(2-phenylethyl)piperidin-4-yl)isoxazole: a potent, selective antagonist at human cloned dopamine D4 receptors. *J Med Chem*. 1996 May 10;39(10):1943-5. PubMed PMID: 8642551.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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