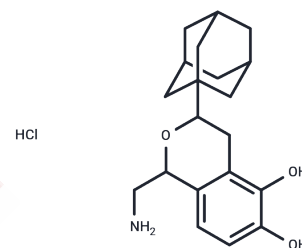


A 77636 hydrochloride

Chemical Properties

CAS No. :	145307-34-2
Formula:	C ₂₀ H ₂₈ ClNO ₃
Molecular Weight:	365.89
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	A 77636 hydrochloride is a potent, orally active, selective and long acting dopamine D1 receptor agonist (pKi=7.40; Ki=39.8 nM). A 77636 hydrochloride shows antiparkinsonian activity. A 77636 hydrochloride is functionally inactive at dopamine D2 receptor.
Targets(IC50)	Dopamine Receptor
In vivo	A-77636 (0.1-1 mg/kg) exerts a suppressant effect on food intake in male hooded rat, due principally to a reduction in meal size and duration[3].

Solubility Information

Solubility	DMSO: 16.67 mg/mL (45.56 mM),Sonication is recommended. H ₂ O: soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 1.67 mg/mL (4.56 mM),Solution. <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	2.7331 mL	13.6653 mL	27.3306 mL
5 mM	0.5466 mL	2.7331 mL	5.4661 mL
10 mM	0.2733 mL	1.3665 mL	2.7331 mL
50 mM	0.0547 mL	0.2733 mL	0.5466 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

Kebabian JW, et al. A-77636: a potent and selective dopamine D1 receptor agonist with antiparkinsonian activity in marmosets. *Eur J Pharmacol.* 1992;229(2-3):203-209.

Smith LA, et al. The actions of a D-1 agonist in MPTP treated primates show dependence on both D-1 and D-2 receptor function and tolerance on repeated administration. *J Neural Transm (Vienna).* 2002;109(2):123-140.

Cooper SJ, et al. The anorectic effect of the selective dopamine D1-receptor agonist A-77636 determined by meal pattern analysis in free-feeding rats. *Eur J Pharmacol.* 2006;532(3):253-257.

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