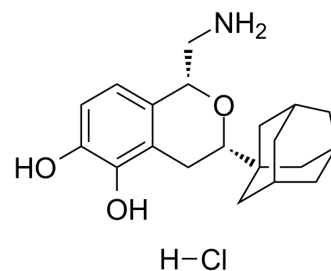


A-77636 hydrochloride

Cat. No.:	HY-103416
CAS No.:	145307-34-2
Molecular Formula:	C ₂₀ H ₂₈ ClNO ₃
Molecular Weight:	365.89
Target:	Dopamine Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



BIOLOGICAL ACTIVITY

Description	A-77636 hydrochloride is a potent, orally active, selective and long acting dopamine D1 receptor agonist (pK _i =7.40; K _i =39.8 nM) with antiparkinsonian activity. A-77636 hydrochloride is functionally inactive at dopamine D2 receptor ^{[1][2]} .	
In Vivo	A-77636 (0.1-1 mg/kg) exerts a suppressant effect on food intake, due principally to a reduction in meal size and duration ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Male hooded rat ^[1]
	Dosage:	0.1, 0.3 and 1.0 mg/kg
	Administration:	S.c.
	Result:	Exerted a suppressant effect on food intake, due principally to a reduction in meal size and duration.

CUSTOMER VALIDATION

- Nature. 2023 Dec;624(7992):672-681.

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REFERENCES

- [1]. 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.
- [2]. 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.
- [3]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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