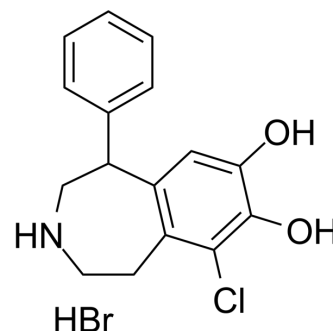


SKF 81297 hydrobromide

Cat. No.:	HY-12236
CAS No.:	67287-39-2
Molecular Formula:	C ₁₆ H ₁₇ BrClNO ₂
Molecular Weight:	370.67
Target:	Dopamine Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 20 mg/mL (53.96 mM)
 DMF : ≥ 20 mg/mL (53.96 mM)
 Ethanol : ≥ 2 mg/mL (5.40 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
	Concentration				
	1 mM		2.6978 mL	13.4891 mL	26.9782 mL
	5 mM		0.5396 mL	2.6978 mL	5.3956 mL
	10 mM		0.2698 mL	1.3489 mL	2.6978 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description	SKF 81297 hydrobromide is a potent and selective dopamine D ₁ receptor agonist ^[1] .
IC₅₀ & Target	D ₁ Receptor
In Vivo	SKF 81297 hydrobromide (0.05-0.3 mg/kg, i.m., once) stimulates motor behaviour of MPTP-lesioned monkeys ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
Animal Model:	Four male rhesus monkeys (Macaca mulatta, 7.0-11.3 kg) ^[1]
Dosage:	0.05-0.3 mg/kg
Administration:	Injected intramuscularly (i.m.), once

Result:

Significantly increased rotational behaviour and right-sided hand use in unilateral MPTP-lesioned rhesus monkeys.

REFERENCES

[1]. Vermeulen RJ, et al. The selective dopamine D1 receptor agonist, SKF 81297, stimulates motor behaviour of MPTP-lesioned monkeys. *Eur J Pharmacol.* 1993 Apr 22;235(1):143-7.

[2]. Auger ML, et al. Amelioration of cognitive impairments induced by GABA hypofunction in the male rat prefrontal cortex by direct and indirect dopamine D1 agonists SKF-81297 and d-Govadine. *Neuropharmacology.* 2020 Jan 1;162:107844.

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

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