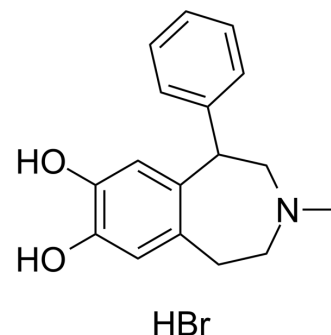


SKF-75670 hydrobromide

Cat. No.:	HY-125043
CAS No.:	62717-63-9
Molecular Formula:	C ₁₇ H ₂₀ BrNO ₂
Molecular Weight:	350.25
Target:	Dopamine Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	-20°C, stored under nitrogen, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 40 mg/mL (114.20 mM; ultrasonic and warming and heat to 60°C)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		2.8551 mL	14.2755 mL	28.5510 mL
		5 mM		0.5710 mL	2.8551 mL	5.7102 mL
	10 mM		0.2855 mL	1.4276 mL	2.8551 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (7.14 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.14 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.14 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	SKF-75670 hydrochloride is a Dopamine D ₁ receptor partial agonist. SKF-75670 hydrochloride is also a Cocaine antagonist ^[1] [2][3].
IC₅₀ & Target	D ₁ Receptor
In Vivo	SKF-75670 hydrochloride (2.5-10 mg/kg, i.p.) reduces locomotor activity in MPTP-treated marmosets ^[2] . SKF-75670 hydrochloride (0.3 and 1.0 mg/kg, i.m.) antagonizes the rate-altering and discriminative-stimulus effects of Cocaine in monkeys ^[3] .

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	MPTP-treated marmosets ^[2]
Dosage:	2.5-10 mg/kg
Administration:	i.p.
Result:	Reduced locomotor activity (marmosets were largely immobile and appeared sedated and had a flexed posture).

REFERENCES

- [1]. Rosenzweig-Lipson S, et al. Dopamine D1 receptor involvement in the discriminative-stimulus effects of SKF 81297 in squirrel monkeys. *J Pharmacol Exp Ther.* 1993 Nov;267(2):765-75.
- [2]. Gnanalingham KK, et al. Differential anti-parkinsonian effects of benzazepine D1 dopamine agonists with varying efficacies in the MPTP-treated common marmoset. *Psychopharmacology (Berl).* 1995 Feb;117(3):275-86.
- [3]. Spealman RD, et al. Differential modulation of behavioral effects of cocaine by low- and high-efficacy D1 agonists. *Psychopharmacology (Berl).* 1997 Oct;133(3):283-92.
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA