



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

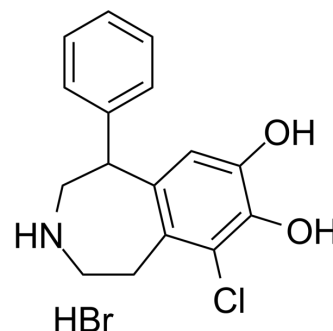
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

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 : 120 mg/mL (323.74 mM; Need ultrasonic)
 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.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	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.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 3 mg/mL (8.09 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 3 mg/mL (8.09 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	SKF 81297 hydrobromide is a potent and selective dopamine D1 receptor agonist ^[1] .
IC ₅₀ & 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 (<i>Macaca mulatta</i> , 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.

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