



# SZABO SCANDIC

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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- Expressversand

### SZABO-SCANDIC HandelsgmbH

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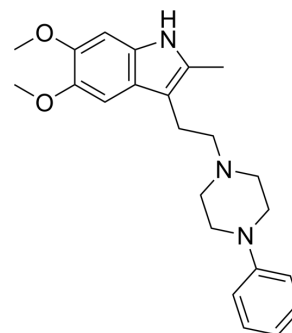
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## Oxypertine

<b>Cat. No.:</b>	HY-119677		
<b>CAS No.:</b>	153-87-7		
<b>Molecular Formula:</b>	C <sub>23</sub> H <sub>29</sub> N <sub>3</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	379.5		
<b>Target:</b>	Others		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (263.50 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	<b>Preparing Stock Solutions</b>			1 mg	5 mg
		1 mM		2.6350 mL	13.1752 mL
		5 mM		0.5270 mL	2.6350 mL
	10 mM		0.2635 mL	1.3175 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.59 mM); Clear solution  2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.59 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	Oxypertine is a neuroprotective agent. Oxypertine can be used in the research of neurological conditions, such as anxiety and schizophrenia <sup>[1][2][3]</sup> .
<b>In Vitro</b>	Oxypertine (0.44 nM-26 μM, 15 min) antagonizes dopamine and 5-HT induced contractions of the rat isolated vas deferens <sup>[1]</sup> . Oxypertine (8.8 nM, 15 min) reduces the contractions evoked by transmural stimulation of the vas deferens <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	Oxypertine (10 and 35 mg/kg, i.p.) causes an obvious dose-related depletion in the levels of norepinephrine (NE), dopamine (DA) and 5-hydroxytryptamine (5-HT) in various discrete regions of the rat brain <sup>[2]</sup> . Oxypertine (0.625-20 mg/kg, i.p.) inhibits stereotyped behaviour induced by both amphetamine and apomorphine in rats <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Mice with chronic restraint stress <sup>[2]</sup>
Dosage:	10, 35 mg/kg
Administration:	Intraperitoneal injection (i.p.)
Result:	Increased the level of homovanillic acid in three discrete regions, i.e., the cortex, striatum and mid-brain. Inhibited Apomorphine-induced stereotypy.
Animal Model:	Mice with stereotyped behaviour induced by amphetamine (5.0 mg/kg i.p.) and apomorphine (1.0 mg/kg, s.c.) <sup>[3]</sup>
Dosage:	0.625-20 mg/kg
Administration:	Intraperitoneal injection (i.p.)
Result:	Reduced the content of dopamine in the striatum but increased the concentrations of homovanillic acid (HVA) and 3,4-dihydroxyphenylacetic acid (DOPAC).

## REFERENCES

- [1]. H Miranda, et al. Effects of oxypertine on the isolated vas deferens of the rat. *Br J Pharmacol.* 1978 Apr;62(4):515-8.
- [2]. T Moroji, et al. Neurochemical and behavioral studies on the mode of action of oxypertine. *Arzneimittelforschung.* 1986 May;36(5):804-8.
- [3]. M Hong, et al. Comparison of the acute actions of amine-depleting drugs and dopamine receptor antagonists on dopamine function in the brain in rats.

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

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