## L-368,899 hydrochloride

MedChemExpress

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Cat. No.:	HY-108677	
CAS No.:	160312-62-9	
Molecular Formula:	$C_{26}H_{43}CIN_4O_5S_2$	o <sup>≲S</sup> ≥ HN.
Molecular Weight:	591.23	
Target:	Oxytocin Receptor	N H2
Pathway:	GPCR/G Protein	
Storage:	4°C, sealed storage, away from moisture	
	* In solvent : -80°C. 2 years: -20°C. 1 year (sealed storage, away from moisture)	н

### SOLVENT & SOLUBILITY

In Vitro	DMSO : 130 mg/mL (219.88 mM; Need ultrasonic) H <sub>2</sub> O : 5 mg/mL (8.46 mM; ultrasonic and warming and heat to 60°C)					
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	1.6914 mL	8.4569 mL	16.9139 mL	
		5 mM	0.3383 mL	1.6914 mL	3.3828 mL	
		10 mM	0.1691 mL	0.8457 mL	1.6914 mL	
	Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.17 mg/mL (3.67 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.17 mg/mL (3.67 mM); Clear solution					
	<ol> <li>Add each solvent of Solubility: ≥ 2.17 n</li> </ol>	one by one: 10% DMSO >> 90% cor ng/mL (3.67 mM); Clear solution	n oil			

Description	L-368,899 hydrochloride is a potent, selective, orally bioavailable, non-peptide oxytocin receptor antagonist, with IC <sub>50</sub> s of 8.9 nM and 26 nM for rat uterus and human uterus oxytocin receptor, respectively. L-368,899 hydrochloride used as a tocolytic agent <sup>[1]</sup> .			
IC <sub>50</sub> & Target	IC50: 8.9 nM (rat uterus oxytocin receptor), 26 nM (human uterus oxytocin receptor) <sup>[1]</sup>			
In Vitro	L-368,899 hydrochloride is a potent, orally bioavailable, non-peptide oxytocin receptor antagonist, with IC <sub>50</sub> s of 8.9 nM and 26 nM for rat uterus and human uterus oxytocin receptor, respectively. L-368,899 is less active on VP receptor in human liver			

# **Product** Data Sheet

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 $H_2N$ 

H-CI

	and kidney, rat liver and kidney (IC <sub>50</sub> , 510 nM, 960 nM, 890 nM, 2400 nM, respectively) <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	L-368,899 exhibits similar pharmacokinetics in rats and dogs. After a single iv. injection, L-368,899 had a t <sub>1/2</sub> of 2 hr in both species. Additionally, L-368,899 has a plasma clearance between 23 and 36 ml/min/kg in rats or dogs. L-368,899 exhibits V <sub>dss</sub> values of 2.0 and 2.6 liters/kg and 3.4 to 4.9 liters/kg for dogs, respectively <sup>[2]</sup> . L-368,899 is orally available. In the rat, at the 5 mg/kg dose, the oral bioavailabilities are 14% and 18% for female and male rats, respectively. Additionally, the oral bioavailabilities are 17% and 41% for female and male rats, respectively at the dosage of 25 mg/kg <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### **CUSTOMER VALIDATION**

- Front Pharmacol. 2019 Nov 15;10:1380.
- Neurosci Res. 2021 Apr 28;S0168-0102(21)00095-X.

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### REFERENCES

[1]. Williams PD, et al. 1-((7,7-Dimethyl-2(S)-(2(S)-amino-4-(methylsulfonyl)butyramido)bicyclo [2.2.1]-heptan-1(S)-yl)methyl)sulfonyl)-4-(2-methylphenyl)piperaz ine (L-368,899): an orally bioavailable, non-peptide oxytocin antagonist with potential utility fo

[2]. Kathryn L. Thompson, et al. Pharmacokinetics and Disposition of the Oxytocin Receptor Antagonist L-368,899 in Rats and Dogs

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

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