

## L-368,899 hydrochloride

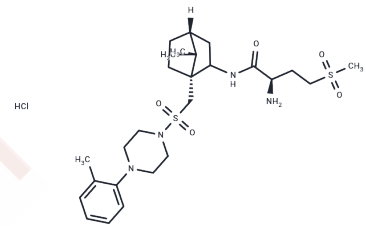
### Chemical Properties

CAS No. : 160312-62-9

Formula: C<sub>26</sub>H<sub>43</sub>ClN<sub>4</sub>O<sub>5</sub>S<sub>2</sub>

Molecular Weight: 591.23

Storage: Store at low temperature, Keep away from direct sunlight  
 Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
*Actual storage temperature shall be subject to the COA.*



### Biological Description

Description	L-368,899 hydrochloride is an orally available and selective nonpeptide oxytocin receptor (OXTR) antagonist for the prevention of preterm labor. L-368,899 hydrochloride prevents oxytocin-induced anti-anomalous pain and anti-nausea, and may be useful for the study of depression.
Targets(IC50)	OX Receptor, Oxytocin Receptor
In vitro	L-368,899 hydrochloride is an effective non-peptide oxytocin receptor antagonist, with IC <sub>50</sub> values of 8.9 nM and 26 nM for rat uterus and human uterus oxytocin receptors, respectively[1].
In vivo	L-368,899 (5 mg/kg; oral administration) has oral bioavailabilities of 14% and 18% in female and male rats, respectively[2].

### Solubility Information

Solubility	H <sub>2</sub> O: 2 mg/mL (3.38 mM), Sonication is recommended. DMSO: 150 mg/mL (253.71 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (8.46 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0338 mL	0.1691 mL	0.3383 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Williams PD, Anderson PS, Ball RG, Bock MG, Carroll L, Chiu SH, Clineschmidt BV, Culberson JC, Erb JM, Evans BE, 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)piperazine (L-368,899): an orally bioavailable, non-peptide oxytocin antagonist with potential utility for managing preterm labor. *J Med Chem.* 1994 Mar 4;37(5):565-71.

Thompson KL, et al. Pharmacokinetics and disposition of the oxytocin receptor antagonist L-368,899 in rats and dogs. *Drug Metab Dispos.* 1997 Oct;25(10):1113-8.

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