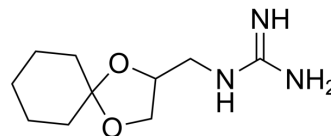


## Guanadrel

<b>Cat. No.:</b>	HY-W376701
<b>CAS No.:</b>	40580-59-4
<b>Molecular Formula:</b>	C <sub>10</sub> H <sub>19</sub> N <sub>3</sub> O <sub>2</sub>
<b>Molecular Weight:</b>	213.28
<b>Target:</b>	Adrenergic Receptor
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling
<b>Storage:</b>	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

<b>In Vitro</b>	DMSO : 50 mg/mL (234.43 mM; Need ultrasonic)																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>4.6887 mL</td> <td>23.4434 mL</td> <td>46.8867 mL</td> </tr> <tr> <td>5 mM</td> <td>0.9377 mL</td> <td>4.6887 mL</td> <td>9.3773 mL</td> </tr> <tr> <td>10 mM</td> <td>0.4689 mL</td> <td>2.3443 mL</td> <td>4.6887 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	4.6887 mL	23.4434 mL	46.8867 mL	5 mM	0.9377 mL	4.6887 mL	9.3773 mL	10 mM	0.4689 mL	2.3443 mL	4.6887 mL
Solvent	Mass			Concentration																		
		1 mg	5 mg	10 mg																		
Preparing Stock Solutions	1 mM	4.6887 mL	23.4434 mL	46.8867 mL																		
	5 mM	0.9377 mL	4.6887 mL	9.3773 mL																		
	10 mM	0.4689 mL	2.3443 mL	4.6887 mL																		
	Please refer to the solubility information to select the appropriate solvent.																					
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (11.72 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (11.72 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (11.72 mM); Clear solution</li> </ol>																					

### BIOLOGICAL ACTIVITY

<b>Description</b>	Guanadrel is an orally active postganglionic adrenergic inhibitor of spiroketal. Guanadrel can be used in anti-hypertensive studies <sup>[1]</sup> .
<b>In Vivo</b>	Guanadrel (oral gavage, 15-400 mg/kg, every day, 6-52 weeks) has little toxicity to the nervous system in rats and dogs <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
Animal Model:	Rats, dogs <sup>[1]</sup>

Dosage:	15-400 mg/kg
Administration:	Oral gavage; every day; 6-52 weeks
Result:	Showed a slight increase in the weight of the prostate and adrenal glands while loss in the kidney in rats. Decreased weight gain values in a dose-dependent manner but liver function is normal in dogs.

## REFERENCES

[1]. J D Palmer, et al. Guanadrel sulfate: a postganglionic sympathetic inhibitor for the treatment of mild to moderate hypertension. Pharmacotherapy. 1983 Jul-Aug;3(4):220-9. doi: 10.1002/j.1875-9114.1983.tb03257.x.

**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