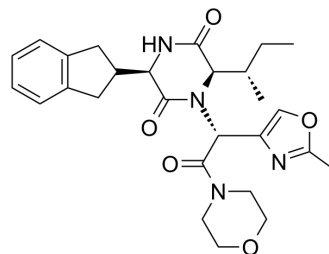


## Retosiban

<b>Cat. No.:</b>	HY-14778		
<b>CAS No.:</b>	820957-38-8		
<b>Molecular Formula:</b>	C <sub>27</sub> H <sub>34</sub> N <sub>4</sub> O <sub>5</sub>		
<b>Molecular Weight:</b>	494.58		
<b>Target:</b>	Oxytocin Receptor		
<b>Pathway:</b>	GPCR/G Protein		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (202.19 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
<b>Preparing Stock Solutions</b>	<b>1 mM</b>	2.0219 mL	10.1096 mL	20.2192 mL
	<b>5 mM</b>	0.4044 mL	2.0219 mL	4.0438 mL
	<b>10 mM</b>	0.2022 mL	1.0110 mL	2.0219 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 (5.05 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 (5.05 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (5.05 mM); Clear solution</li> </ol>			

### BIOLOGICAL ACTIVITY

<b>Description</b>	Retosiban (GSK221149A) is a potent and selective oxytocin antagonist with a K <sub>i</sub> of 0.65 nM.
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 0.65 nM (Oxytocin) <sup>[1]</sup>

### REFERENCES

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

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