## Dehydro Palonosetron

MedChemExpress

Cat. No.:	HY-44132	
CAS No.:	135729-56-5	
Molecular Formula:	C <sub>19</sub> H <sub>22</sub> N <sub>2</sub> O	
Molecular Weight:	294.39	
Target:	5-HT Receptor	
Pathway:	GPCR/G Protein; Neuronal Signaling	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

## Product Data Sheet

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BIOLOGICAL ACTIV			
Description	Dehydro Palonosetron (RS 42358-197) is a potent, seslective and orally active 5-HT3 receptor antagonist. Dehydro Palonosetron has no effect on the activities of 5-HT1 receptors, 5-HT2 receptors or 5-HT4 receptors <sup>[1]</sup> .		
IC <sub>50</sub> & Target	5-HT <sub>3</sub> Receptor		
In Vitro	In functional experiments in vitro, Dehydro Palonosetron (RS 42358-197) behaves as a competitive antagonist against 5-HT- induced contractions in the guinea pig ileum, yielding a pA2 estimate of 8.1. Dehydro Palonosetron is devoid of any agonistic or antagonistic activity at 5-HT1-like receptors, 5-HT2 receptors or 5-HT4 receptors <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo	route, dose-dependent and 11.6 μg/chamber, r Dehydro Palonosetron suppressed by the aver	<ul> <li>chydro Palonosetron (RS 42358-197), administered by the intravenous, intraduodenal or transdermal ly inhibited the Bezold-Jarisch reflex induced by 2-methyl 5-HT (ID50:0.05 µg/kg; i.v., 5.7 µg/kg; i.d., espectively)<sup>[1]</sup>.</li> <li>(RS 42358-197; 0.01 ng/kg-10 mg/kg; oral administration; once) disinhibits behaviour in the mouse sive situation of the light/dark test box<sup>[2]</sup>.</li> <li>ently confirmed the accuracy of these methods. They are for reference only.</li> <li>Male albino BKW mice (30-35 g)<sup>[2]</sup></li> <li>0.01 ng/kg, 0.1 ng/kg, 1 ng/kg, 100 ng/kg, 1 µg/kg, 100 µg/kg, 1 mg/kg, 10 mg/kg</li> <li>Oral administration; once</li> <li>Increased the proportion of time mice spent and the number of rearings and line crossings in the light area of the test chamber.</li> </ul>	

## REFERENCES

[1]. R M Eglen, et al. RS 42358-197, a novel and potent 5-HT3 receptor antagonist, in vitro and in vivo. J Pharmacol Exp Ther. 1993 Aug;266(2):535-43.

[2]. B Costall, et al. The effect of the 5-HT3 receptor antagonist, RS-42358-197, in animal models of anxiety. Eur J Pharmacol. 1993 Mar 30;234(1):91-9.

## 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