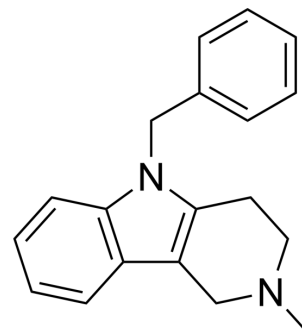


## Mebhydrolin

<b>Cat. No.:</b>	HY-B1303A		
<b>CAS No.:</b>	524-81-2		
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>20</sub> N <sub>2</sub>		
<b>Molecular Weight:</b>	276.38		
<b>Target:</b>	Histamine Receptor		
<b>Pathway:</b>	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 50 mg/mL (180.91 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	3.6182 mL	18.0910 mL	36.1821 mL
		5 mM	0.7236 mL	3.6182 mL	7.2364 mL
10 mM		0.3618 mL	1.8091 mL	3.6182 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 (9.05 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 (9.05 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (9.05 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	Mebhydrolin is a specific histamine H <sub>1</sub> receptor antagonist.
<b>IC<sub>50</sub> &amp; Target</b>	Histamine H1-receptor <sup>[1]</sup>
<b>In Vitro</b>	Mebhydrolin is a specific histamine H <sub>1</sub> -receptor antagonist and comparing it with the effects of chlorpromazine, the archetypical phenothiazine <sup>[1]</sup> . Mebhydrolin exerts an antihistaminic effect over the period of the ethanol interaction study <sup>[2]</sup>

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MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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- [1]. O'Neill PA, et al. Chlorpromazine-a specific effect on breathlessness? Br J Clin Pharmacol. 1985 Jun;19(6):793-7.
- [2]. Franks HM, et al. Interaction between ethanol and antihistamines: 3. Mebhydrolin. Med J Aust. 1981 Oct 31;2(9):477-9.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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