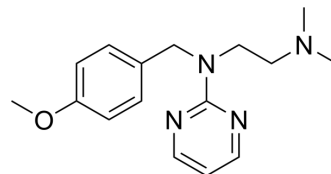


## Thonzylamine

<b>Cat. No.:</b>	HY-B1317	
<b>CAS No.:</b>	91-85-0	
<b>Molecular Formula:</b>	C <sub>16</sub> H <sub>22</sub> N <sub>4</sub> O	
<b>Molecular Weight:</b>	286.37	
<b>Target:</b>	Histamine Receptor	
<b>Pathway:</b>	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling	
<b>Storage:</b>	Pure form	-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 (349.20 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	3.4920 mL	17.4599 mL	34.9199 mL
		5 mM	0.6984 mL	3.4920 mL	6.9840 mL
10 mM		0.3492 mL	1.7460 mL	3.4920 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 (8.73 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 (8.73 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (8.73 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	Thonzylamine is an orally active H <sub>1</sub> histamine receptor antagonist, exhibits good antihistaminic and antianaphylactic properties. Thonzylamine can be used for the research of hypersensitivity diseases, nasal congestion, allergic conjunctivitis and other allergic diseases <sup>[1][2]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	H <sub>1</sub> Receptor

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## REFERENCES

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- [1]. AARON TH, et, al. Neohetramine and thephorin; two new antihistaminic drugs. Can Med Assoc J. 1948 Nov; 59(5): 438-41.
- [2]. Zhou S, et, al. Design, synthesis and biological activity of a novel ethylenediamine derivatives as H<sub>1</sub> receptor antagonists. Bioorg Med Chem. 2019 Dec 15; 27(24): 115127.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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