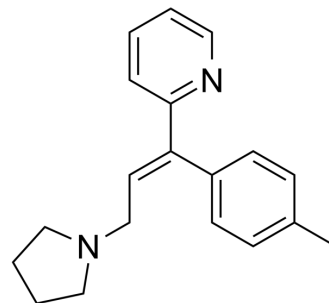


## Tripolidine

<b>Cat. No.:</b>	HY-B1808
<b>CAS No.:</b>	486-12-4
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>22</sub> N <sub>2</sub>
<b>Molecular Weight:</b>	278.39
<b>Target:</b>	Histamine Receptor
<b>Pathway:</b>	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Tripolidine is an orally active H1R Antagonist antagonist. Tripolidine has the function of spinal cord motor and sensory block. Tripolidine can be used for the research of allergic rhinitis <sup>[1][2][3]</sup> .	
<b>In Vitro</b>	Tripolidine (maturing human dendritic cells) can antagonist histamine H1 and decreases the expression of CD45 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
<b>In Vivo</b>	Tripolidine (292.81-1467.20 µg/kg; i.p.; Male Sprague-Dawley rat) produces a dose-dependent effect of spinal motor and sensory block in rats <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	<b>Animal Model:</b>	Male Sprague-Dawley rat (300-350 g) <sup>[2]</sup>
	<b>Dosage:</b>	292.81, 488.02, 733.60, 1098.83 and 1467.20 µg/kg
	<b>Administration:</b>	Intrathecal injection
	<b>Result:</b>	Elicited spinal block in a dose-dependent.

### REFERENCES

- [1]. Szeberényi JB, et, al. Inhibition of effects of endogenously synthesized histamine disturbs in vitro human dendritic cell differentiation. *Immunol Lett.* 2001 Apr 2;76(3):175-82.
- [2]. Tzeng JI, et, al. Spinal sensory and motor blockade by intrathecal doxylamine and tripolidine in rats. *J Pharm Pharmacol.* 2018 Dec;70(12):1654-1661.
- [3]. Deal DL, Chandrasurin P, Shockcor J, Minick DJ, Findlay JW, McNulty MJ. Disposition and metabolism of tripolidine in mice. *Drug Metab Dispos.* 1992 Nov-Dec;20(6):920-7.

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

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