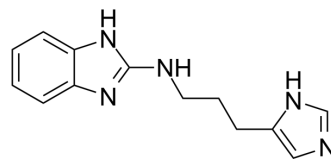


ROS 234

Cat. No.:	HY-107563
CAS No.:	184576-87-2
Molecular Formula:	C ₁₃ H ₁₅ N ₅
Molecular Weight:	241.29
Target:	Histamine Receptor
Pathway:	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	ROS 234 is a potent H ₃ antagonist, with a pK _B of 9.46 for Guinea-pig ileum H ₃ -receptor, a pK _i of 8.90 for Rat cerebral cortex H ₃ -receptor, and a ED ₅₀ of 19.12 mg/kg (ip) in ex vivo of Rat cerebral cortex. ROS 234 displays poor central access ^{[1][2]} .
IC₅₀ & Target	rat H ₃ receptor 8.90 (pKi)
In Vivo	ROS 234 centrally injected, significantly shortens pentobarbital narcosis ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Ballabeni V, et al. CNS access of selected H₃-antagonists: ex vivo binding study in rats. *Inflamm Res*. 2002 Apr;51 Suppl 1:S55-6.

[2]. Mor M, et al. Synthesis, biological activity, QSAR and QSPR study of 2-aminobenzimidazole derivatives as potent H₃-antagonists. *Bioorg Med Chem*. 2004 Feb 15;12(4):663-74.

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

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