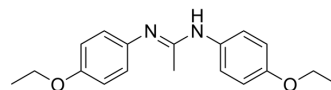


Phenacaine

Cat. No.:	HY-B1726
CAS No.:	101-93-9
Molecular Formula:	C ₁₈ H ₂₂ N ₂ O ₂
Molecular Weight:	298.38
Target:	Phosphodiesterase (PDE)
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Phenacaine (Holocaine) is a local anesthetic. Phenacaine inhibits the specific calmodulin-dependent stimulation of erythrocyte Ca ²⁺ -ATPase and cyclic nucleotide phosphodiesterases from brain and heart ^{[1][2]} .
In Vitro	Phenacaine inhibits the specific calmodulin-dependent stimulation of erythrocyte Ca ²⁺ -ATPase (EC 3.6.1.3) and cyclic nucleotide phosphodiesterase (EC 3.1.4.17) in brain and heart tissues ^[1] . Phenacaine (1 μM-1 mM) depresses glucose-induced insulin secretion by pancreas ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. M Volpi, et al. Local anesthetics, mepacrine, and propranolol are antagonists of calmodulin. Proc Natl Acad Sci U S A. 1981 Feb;78(2):795-9.
- [2]. R Bressler, et al. Effect of local anesthetics on insulin secretion by pancreas pieces. Diabetes. 1971 Nov;20(11):721-8.

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

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