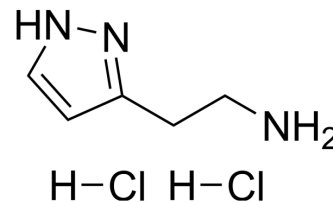


Betazole dihydrochloride

Cat. No.:	HY-B1557A
CAS No.:	138-92-1
Molecular Formula:	C ₅ H ₁₁ Cl ₂ N ₃
Molecular Weight:	184.07
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	Betazole (Ametazole) dihydrochloride, a pyrazole analogue of histamine, is an orally active H ₂ receptor agonist. Betazole dihydrochloride induces gastric acid secretion, and causes an immediate and significant increase in common bile duct pressure. Betazole dihydrochloride has been used as a diagnostic agent known as histalog, for investigating gastric acid secretory capacity ^{[1][2][3]} .
IC₅₀ & Target	H ₂ Receptor
In Vitro	Betazole (Ametazole) dihydrochloride is a weak histamine agonist with relative selectivity towards H ₂ receptors and only minimal H ₁ activity. Betazole dihydrochloride induces gastric inhibitory polypeptide (GIP) secretion ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Proc Natl Acad Sci U S A. 2023 Feb 28;120(9):e2207003120.

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REFERENCES

- [1]. Maples MD, Effects of betazole hydrochloride and cimetidine on common bile pressure and duodenal myoelectric activity in the dog. *Am Surg.* 1981;47(12):519-521.
- [2]. Spitz IM, Betazole-induced GIP secretion is not mediated by gastric HCl. *Metabolism.* 1982;31(4):380-382.
- [3]. CLAYMAN CB, A simple oral gastric secretory stimulant (betazole hydrochloride). *JAMA.* 1961;175:908-909.

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

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