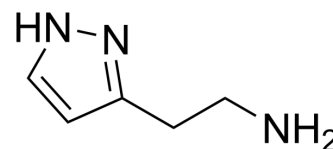


Betazole

Cat. No.:	HY-B1557
CAS No.:	105-20-4
Molecular Formula:	C ₅ H ₉ N ₃
Molecular Weight:	111.15
Target:	Histamine Receptor
Pathway:	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (2249.21 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	8.9969 mL	44.9843 mL	89.9685 mL
				5 mM	1.7994 mL	8.9969 mL	17.9937 mL
				10 mM	0.8997 mL	4.4984 mL	8.9969 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (18.71 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (18.71 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (18.71 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	Betazole (Ametazole), a pyrazole analogue of histamine, is an orally active histamine H ₂ receptor agonist. Betazole induces gastric acid secretion and causes an immediate and significant increase in common bile duct pressure. Betazole is used as a diagnostic agent known as histalog for investigating gastric acid secretory capacity ^{[1][2][3]} .
IC ₅₀ & Target	H ₂ Receptor
In Vitro	Betazole (Ametazole) is a weak histamine agonist with relative selectivity towards H ₂ receptors and only minimal H ₁ activity. Betazole 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.
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA