

NC-1300-B

Chemical Properties

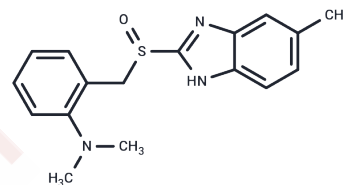
CAS No. : 104340-52-5

Formula: C₁₇H₁₉N₃O₂S

Molecular Weight: 313.42

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

| | |
|---------------|---|
| Description | NC-1300-B inhibits H(+)-K(+)-ATPase and is used in the study of gastric ulcers. |
| Targets(IC50) | ATPase |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|------------|
| 1 mM | 3.1906 mL | 15.953 mL | 31.9061 mL |
| 5 mM | 0.6381 mL | 3.1906 mL | 6.3812 mL |
| 10 mM | 0.3191 mL | 1.5953 mL | 3.1906 mL |
| 50 mM | 0.0638 mL | 0.3191 mL | 0.6381 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Lin H, et al. Reduction in renin release and renal vascular resistance by H(+)-K(+)-ATPase inhibition. Am J Physiol. 1997 Sep;273(3 Pt 2):F457-62.

McCabe RD, et al. Evidence of a K(+)-H(+)-ATPase in vascular smooth muscle cells. Am J Physiol. 1992 Jun;262(6 Pt 2):H1955-8.

Okabe S, et al. Effects of NC-1300-B, a new benzimidazole derivative, on hog gastric H⁺, K⁺-ATPase, gastric acid secretion and HCl. ethanol-induced gastric lesions in rats. Dig Dis Sci. 1988 Nov;33(11):1425-34.

Rhoden KJ, et al. H⁺-K⁺ ATPase inhibitors cause relaxation of guinea pig and human airway smooth muscle in vitro. J Pharmacol Exp Ther. 1996 Mar;276(3):897-903.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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