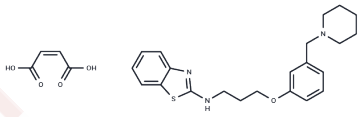
# Data Sheet (Cat.No.T23565)

TargetMol

## Zolantidine dimaleate

### Chemical Properties



CAS No. : 104076-39-3

Formula: C26H31N3O5S

Molecular Weight: 497.61

Storage: Keep away from moisture
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 | Zolantidine dimaleate represents the first-in-class, brain-penetrating histamine H2 receptor antagonist cross the blood-brain barrier with high efficiency to modulate histaminergic signaling within the central nervous system during various preclinical experimental protocols. |
| Targets(IC50) | Histamine Receptor |
| In vitro | In physiological recordings using guinea-pig atrium, Zolantidine dimaleate antagonized histamine H2-receptors with a pA2 value of 6.57 [1]. |
| In vivo | In rat models, intravenous administration of Zolantidine dimaleate (1-10 umol/kg) inhibited gastric acid secretion and attenuated behavioral changes [1]. |

### Solubility Information

| | |
|---|---|
| Solubility | H2O: 40 mg/mL (80.38 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 2.0096 mL | 10.048 mL | 20.0961 mL |
| 5 mM | 0.4019 mL | 2.0096 mL | 4.0192 mL |
| 10 mM | 0.201 mL | 1.0048 mL | 2.0096 mL |
| 50 mM | 0.0402 mL | 0.201 mL | 0.4019 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

Calcutt CR, et al. Zolantidine (SK&F 95282) is a potent and selective gastric H2-receptor antagonist with the ability to cross the blood-brain barrier. Br J Pharmacol. 1987 Aug;91(4):823-31.
Hasanein P. Two histamine H2 receptor antagonists, zolantidine and cimetidine, modulate nociception in cholestatic rats. J Psychopharmacol. 2011 Feb;25(2):281-8.