# Metiamide

**Cat. No.:** HY-15540

**CAS No.:** 34839-70-8

**Molecular Formula:** $C_9H_{16}N_4S_2$

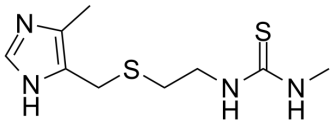
**Molecular Weight:** 244.38

**Target:** Histamine Receptor

**Pathway:** GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling

**Storage:**

| | | |
|---|---|---|
| Powder | -20°C | 3 years |
| | 4°C | 2 years |
| In solvent | -80°C | 2 years |
| | -20°C | 1 year |



## SOLVENT & SOLUBILITY

**In Vitro**

DMSO : 2.4 mg/mL (9.82 mM; Need ultrasonic and warming)

$H_2O$ : 1.67 mg/mL (6.83 mM; ultrasonic and warming and heat to 60°C)

**Preparing Stock Solutions**

| Solvent / Mass / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|
| 1 mM | 4.0920 mL | 20.4599 mL | 40.9199 mL |
| 5 mM | 0.8184 mL | 4.0920 mL | 8.1840 mL |
| 10 mM | --- | --- | --- |

Please refer to the solubility information to select the appropriate solvent.

## BIOLOGICAL ACTIVITY

**Description**

Metiamide (SK&F 92058) is a histamine H2-receptor antagonist developed from another H2 antagonist, burimamide.

**$IC_{50}$ & Target**

Ki: 0.92 uM (H2 receptor)

**In Vitro**

Metiamide (SK&F 92058) is a competitive with aldehyde substrates and noncompetitive with the Human E3 Aldehyde Dehydrogenase coenzyme, binding to both the free E3 isozyme and the enzyme·coenzyme binary complex with $K_i$ values of 0.92 μM glycolaldehyde as the varied substrate[1]. Data is got as percentage change in GTPase activity induced by metiamide compared with the GTPase activity stimulated by HA (100 μM)[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

[1]. Alexandra Kikonyogo ,Regina Pietruszko, Cimetidine and Other H2-Receptor Antagonists as Inhibitors of Human E3 Aldehyde Dehydrogenase. Molecular Pharmacology

1997; 52: 2267-271.

[2]. Hendrik Preuss, Prasanta Ghorai1, Anja Kraus, Constitutive Activity and Ligand Selectivity of Human, Guinea Pig, Rat, and Canine Histamine H2 Receptors. JPET 2007 vol. 321no. 3 983-995.



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