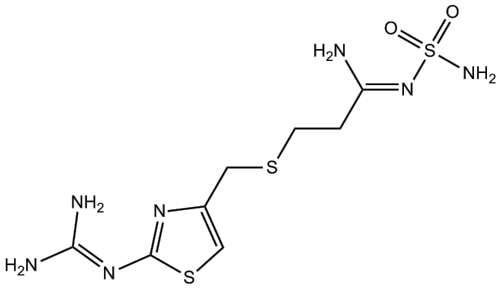
# Product Data Sheet

Product Name: Famotidine
Cat. No.: GC17299

## Chemical Properties

| | | | |
|---|---|---|---|
| Cas. No. | 76824-35-6 | | |
| Chemical Name | 3-[[2-(diaminomethylideneamino)-1,3-thiazol-4-yl]methylsulfanyl]-N'-sulfamoylpropanimidamide | | |
| SMILES | C1=C(N=C(S1)N=C(N)N)CSCCC(=NS(=O)(=O)N)N | | |
| Formula | $C_8H_{15}N_7O_2S_3$ | M.Wt | 337.45 |
| Solubility | ≥ 16.9mg/mL in DMSO | Storage | Store at -20°C |
| General tips | For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months. | | |
| Shipping Condition | Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request. | | |

Structure




## Background

Famotidine (MK-208) is a competitive histamine H2-receptor antagonist. Its main pharmacodynamic effect is the inhibition of gastric secretion.

Famotidine (MK-208) is a histamine H2-receptor antagonist that inhibits stomach acid production, and it is commonly used in the treatment of peptic ulcer disease (PUD) and gastroesophageal reflux disease (GERD/GORD). Famotidine (MK-208) Group(2 mg/kg/day) were significantly lower than the equivalent parameters for the Control Group on both the third and seventh days post-surgery. Famotidine (MK-208) exerts detrimental effects on the anastomotic bursting pressure and hydroxyproline content of perianastomotic tissues in the colon of rats[1]. Famotidine (MK-208)

increased the transgastric potential difference (PD) and promoted the recovery of decreased transgastric PD induced by acidified ethanol in rats. The preventive effect of famotidine on gastric lesions is attributable not only to suppression of acid secretion but to activation of the gastric mucosal defensive mechanisms[2].

References:

[1]. Inan, A., et al., Effects of the histamine H2 receptor antagonist famotidine on the healing of colonic anastomosis in rats. Clinics (Sao Paulo), 2009. 64(6): p. 567-70.
[2]. Miyata, K., et al., Studies on the mechanism for the gastric mucosal protection by famotidine in rats. Jpn J Pharmacol, 1991. 55(2): p. 211-22.

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