

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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PRODUCT INFORMATION



Famotidine

Item No. 23828

CAS Registry No.: 76824-35-6

Formal Name: 3-[[[2-[(aminoiminomethyl)

amino]-4-thiazolyl]methyl]thio]-N-

(aminosulfonyl)-propanimidamide

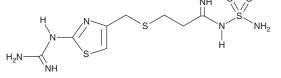
Synonyms: MK-208, YM-11170

 $C_8H_{15}N_7O_2S_3$ 337.5 MF: FW: **Purity:**

UV/Vis.: λ_{max} : 289 nm Supplied as: A crystalline solid

-20°C Storage: Stability: ≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.



Laboratory Procedures

Famotidine is supplied as a crystalline solid. A stock solution may be made by dissolving the famotidine in the solvent of choice, which should be purged with an inert gas. Famotidine is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of famotidine in these solvents is approximately 30 mg/ml. Famotidine is also slightly soluble in ethanol.

Description

Famotidine is a histamine H2 receptor antagonist with a Ki value of 12 nM in fractionated guinea pig cerebral cortex membranes. It is selective for H_2 over H_1 and muscarinic receptors (K = 4 and 28 μ M, respectively, in bovine cerebral cortex).² Famotidine inhibits histamine-induced acid secretion in isolated canine parietal cells ($IC_{50} = 0.6 \mu M$).³ It also suppresses histamine-induced gastric acid secretion in dogs when administered orally and in anesthetized rats when administered intraduodenally (ID_{50} s = 10 and 400 µg/kg, respectively).3 Formulations containing famotidine have been used in the treatment of ulcers, gastroesophageal reflux disease (GERD), and heartburn, as well as to decrease the risk of gastrointestinal toxicity associated with non-steroidal anti-inflammatory drugs (NSAIDs).

References

- 1. Gajtkowski, G.A., Norris, D.B., Rising, T.J., et al. Specific binding of ³H-tiotidine to histamine H₂ receptors in guinea pig cerebral cortex. Nature 304(5921), 65-67 (1983).
- Kubo, N., Shirakawa, S., Kuno, T., et al. Antimuscarinic effects of antihistamines: Quantitative evaluation by receptor-binding assay. Jpn. J. Pharmacol. 43(3), 277-282 (1987).
- 3. Nagaya, H., Inatomi, N., and Satoh, H. Differences in the antisecretory actions of the proton pump inhibitor AG-1749 (lansoprazole) and the histamine H₂-receptor antagonist famotidine in rats and dogs. Jpn. J. Pharmacol. 55(4), 425-436 (1991).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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