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- Mindermengenzuschlag
- Trockeneiszuschlag
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- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

PRODUCT INFORMATION



Famotidine-¹³C-d₃

Item No. 31493

Formal Name: 3-[[[2-[(aminoiminomethyl)amino]-4-thiazolyl]methyl]thio]-N-(aminosulfonyl)propanimidamide-1-¹³C-2,3,3-d₃

MF: C₇[¹³C]H₁₂D₃N₇O₂S₃

FW: 341.5

Chemical Purity: ≥98% (Famotidine)

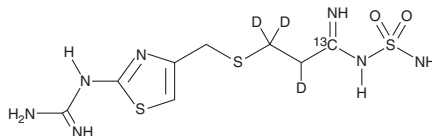
Deuterium

Incorporation: ≥99% deuterated forms (d₁-d₃); ≤1% d₀

Supplied as: A solid

Storage: -20°C

Stability: ≥2 years



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

Laboratory Procedures

Famotidine-¹³C-d₃ is intended for use as an internal standard for the quantification of famotidine (Item No. 23828) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated versus unlabeled).

Famotidine-¹³C-d₃ is supplied as a solid. A stock solution may be made by dissolving the famotidine-¹³C-d₃ in the solvent of choice, which should be purged with an inert gas. Famotidine-¹³C-d₃ is soluble in methanol, DMSO, and dimethyl formamide.

Description

Famotidine is a histamine H₂ receptor antagonist with a K_i value of 12 nM in fractionated guinea pig cerebral cortex membranes.¹ It is selective for H₂ over H₁ and muscarinic receptors (K_is = 4 and 28 μM, respectively, in bovine cerebral cortex).² Famotidine inhibits histamine-induced acid secretion in isolated canine parietal cells (IC₅₀ = 0.6 μM).³ It also suppresses histamine-induced gastric acid secretion in dogs when administered orally and in anesthetized rats when administered intraduodenally (ID₅₀s = 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).
2. 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.

SAFETY DATA

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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CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897

[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM