PRODUCT INFORMATION



Butenafine (hydrochloride)

Item No. 23797

CAS Registry No.: 101827-46-7

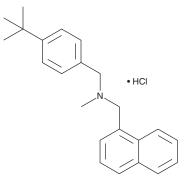
Formal Name: N-[[4-(1,1-dimethylethyl)phenyl]methyl]-

N-methyl-1-naphthalenemethanamine,

monohydrochloride

MF: C₂₃H₂₇N • HCl

353.9 FW: **Purity:** ≥98% Supplied as: A solid Storage: -20°C Stability: ≥4 years



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

Laboratory Procedures

Butenafine (hydrochloride) is supplied as a solid. A stock solution may be made by dissolving the butenafine (hydrochloride) in the solvent of choice, which should be purged with an inert gas. Butenafine (hydrochloride) is slightly soluble in methanol and DMSO.

Description

Butenafine is a benzylamine antifungal agent that has broad-spectrum activity against 87 strains of dermatophytes (MICs = 0.0015-0.05 µg/ml), 15 strains of Aspergillus (MICs = 0.025-0.78 µg/ml), 4 strains of Cryptococcus (MICs = 0.78-1.56 μg/ml), and 67 strains of Candida (MICs = 3.13 to >100 μg/ml). It acts by inhibiting squalene epoxidase.² Butenafine (50 μM) inhibits the synthesis of ergosterol (Item No. 19850), a sterol in the cell membranes of fungi. Formulations containing butenafine have been used in the treatment of tinea pedis, tinea corporis, and tinea cruris.

References

- 1. Maeda, T., Takase, M., Ishibashi, A., et al. Synthesis and antifungal activity of butenafine hydrochloride (KP-363), a new benzylamine antifungal agent. Yakugaku Zasshi 111(2), 126-137 (1991).
- 2. Hiratani, T., Asagi, Y., and Yamaguchi, H. Studies on antifungal mechanism of action of butenafine hydrochloride. II. Comparison in the response to drug treatment between a wild-type strain and tolciclate-resistant mutant strains of Sporothrix schenckii. Nihon Ishinkin Gakkai Zasshi 32(2), 139-149 (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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