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: C_{23}H_{27}N • HCl
FW: 353.9
Purity: ≥98%
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

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. 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