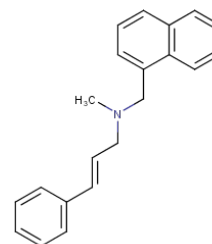


Catalog Number: CM02945

产品信息

Catalog Number:
CM02945CAS号:
65473-14-5分子式:
 $C_{21}H_{22}ClN$ 主要靶点:
Hedgehog/Smoothed|Antibiotic|Antifungal主要通路:
干细胞|G蛋白偶联受体|微生物学分子量:
323.86溶解度:
H₂O:<1 mg/mL,Ethanol:8 mg/mL
(24.7 mM),DMSO:<1 mg/mL

HCl



体外活性

Naftifine exhibits an interesting in vitro spectrum of activity against dermatophytes (38 strains; minimal inhibitory concentration (MIC) range 0.1 to 0.2 mg/mL), aspergilli (6 strains; MIC range, 0.8 to 12.5 mg/mL), *Sporothrix schenckii* (2 strains; MICs, 0.8 and 1.5 mg/mL), and yeasts of the genus *Candida* (77 strains; MIC range, 1.5 to greater than 100 mg/mL). [1] The MIC of naftifine for *C. albicans* Δ 63 is 100 mg/L in Sabouraud medium (initial pH 6.5). Naftifine (50 mg/L) gives greater than 99% inhibition of sterol biosynthesis both in whole cells and in cell extracts of *C. albicans*. The primary action of naftifine appears to be the blocking of fungal squalene epoxidation. [2]

体内活性

Naftifine HCl 2% cream results in clinical cure rate and clinical success rate of 33% and 84% after treatment for 4 weeks, and week 2 efficacy response rates in Naftifine HCl 2% subjects are all lower than at week 4 but are significantly higher than week 2 vehicle-treated counterparts. [3] Naftifine causes interruption of fungal ergosterol synthesis and accumulation of squalene in fungal organisms. Naftifine also has demonstrated anti-inflammatory properties such as a reduction in superoxide production and a reduction in polymorphonuclear leukocyte chemotaxis/endothelial adhesion. Naftifine has shown good efficacy and safety for a variety of conditions and is a useful treatment that provides both antifungal action and relief of inflammatory signs and symptoms. Few adverse events have been noted with naftifine use, the most frequent being mild and transient burning, stinging, or itching in the application area. [4]

描述

Naftifine Hydrochloride is the hydrochloride salt form of naftifine, an allylamine derivate with synthetic broad-spectrum antifungal activity. Although the exact mechanism through which naftifine hydrochloride exerts its effect is unknown, it appears to selectively inhibit the enzyme squalene 2, 3-epoxidase, thereby inhibiting the biosynthesis of sterol. This results in a decreased amount of sterols, especially ergosterol which is the primary fungal membrane sterol, and a corresponding accumulation of squalene in fungal cells. Naftifine hydrochloride can be fungicidal as well as fungistatic to yeasts depending on the concentration and the organisms involved.

储存

Powder: -20°C for 3 years | In solvent: -80°C for 2 years