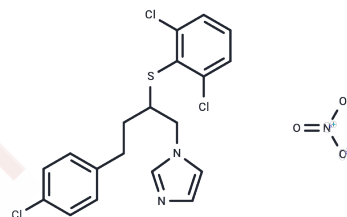


Butoconazole nitrate

Chemical Properties

CAS No. : 64872-77-1
 Formula: C₁₉H₁₈Cl₃N₃O₃S
 Molecular Weight: 474.79
 Appearance: no data available
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

| | |
|---------------|---|
| Description | Butoconazole Nitrate is the nitrate salt form of butoconazole, a synthetic imidazole derivative with fungistatic properties. Butoconazole nitrate (RS 35887) interferes with steroid biosynthesis by inhibiting the conversion of lanosterol to ergosterol, thereby changing the fungal cell membrane lipid composition. This alters cell permeability and leads to growth inhibition. Butoconazole nitrate is active against many dermatophytes and yeasts. It also contains antibacterial effects against some gram-positive organisms. |
| Targets(IC50) | Estrogen/progesterone Receptor,Antifungal |
| In vivo | Dexpanthenol has positive effects on protection of cerebral tissue after ischaemia reperfusion[1]. Topical application of dexpanthenol is widely used in clinical practice for the improvement of wound healing. Upregulation of IL-6, IL-1, CYP1B1, CXCL1, CCL18 and KAP 4-2 gene expression and downregulation of psorasin mRNA and protein expression are identified in samples treated topically with dexpanthenol[2]. |

Solubility Information

| | |
|------------|---|
| Solubility | H ₂ O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 88 mg/mL (185.35 mM),Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|------------|
| 1 mM | 2.1062 mL | 10.531 mL | 21.0619 mL |
| 5 mM | 0.4212 mL | 2.1062 mL | 4.2124 mL |
| 10 mM | 0.2106 mL | 1.0531 mL | 2.1062 mL |
| 50 mM | 0.0421 mL | 0.2106 mL | 0.4212 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Pfaller MA, et al. Diagn Microbiol Infect Dis. 1990 Jan-Feb;13(1):31-5.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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