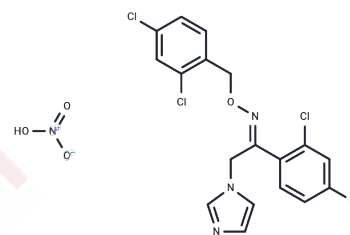


Oxiconazole nitrate

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 64211-46-7 |
| Formula: | C ₁₈ H ₁₃ Cl ₄ N ₃ O·HNO ₃ |
| Molecular Weight: | 492.14 |
| Appearance: | no data available |
| Storage: | Powder: -20°C for 3 years In solvent: -80°C for 1 year |



Biological Description

| | |
|---------------|--|
| Description | Oxiconazole nitrate (Ro 13-8996) is the nitrate salt form of oxiconazole, a broad-spectrum imidazole derivative with antifungal activity. Likely inhibiting cytochrome P450-dependent demethylation of lanosterol, it prevents ergosterol synthesis, a crucial component of the fungal cell membrane. This disruption of membrane synthesis and integrity alters permeability, promotes loss of essential intracellular components, and inhibits fungal cell growth. |
| Targets(IC50) | Antibiotic,Antifection,Antifungal |
| In vivo | Fusidin(Fusidate Sodium) ameliorates EAM, at least partly, through an inhibitory action on the secretion of TNF-α[1]. It markedly attenuates clinical and histological signs of immunoinflammatory diabetes mellitus in mice given streptozotocin(SZ). The effect is dose-dependent, observed in three different strains of mice. Thus, fusidin might have an antidiabetogenic effect[2]. |

Solubility Information

| | |
|------------|---|
| Solubility | DMSO: 50 mg/mL (101.6 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.0319 mL | 10.1597 mL | 20.3194 mL |
| 5 mM | 0.4064 mL | 2.0319 mL | 4.0639 mL |
| 10 mM | 0.2032 mL | 1.016 mL | 2.0319 mL |
| 50 mM | 0.0406 mL | 0.2032 mL | 0.4064 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

Carrillo-Munoz AJ, et al. Rev Esp Quimioter. 2006 Jun;19(2):130-9.

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