



LKT Laboratories, Inc.

Miconazole Nitrate

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Product Information

Product ID M3310

CAS No. 22832-87-7

Chemical Name 1-[2-(2,4-Dichlorophenyl)-2-[(2,4-dichlorophenyl)-methoxy]ethyl]-1H-imidazole nitrate

Synonym NSC169434, R14889

Formula $C_{18}H_{14}Cl_4N_2O \cdot HNO_3$

Formula Wt. 479.15

Melting Point 170-185°C

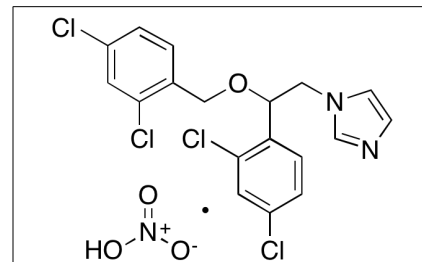
Purity ≥98%

Solubility Soluble in methanol (13 mg/mL), ethanol (3 mg/mL). Practically insoluble in water.

Store Temp Ambient

Ship Temp Ambient

Description Miconazole is an imidazole antifungal compound that inhibits ergosterol synthesis and fungal cell wall formation. Miconazole is clinically used to treat fungal infections and is especially active against *Candida*. Miconazole also exhibits anti-angiogenic activities, decreasing expression of HIF-1α and VEGF in breast cancer and glioma cells. Additionally, this compound may inhibit glucocorticoid receptors.



Bulk quantities available upon request

Product ID	Size
M3310	1 g
M3310	5 g
M3310	25 g

References Park JY, Jung HJ, Seo I, et al. Translational suppression of HIF-1α by miconazole through the mTOR signaling pathway. Cell Oncol (Dordr). 2014 Jul 29. [Epub ahead of print]. PMID: 25070654.

Niimi M, Firth NA, Cannon RD. Antifungal drug resistance of oral fungi. Odontology. 2010 Feb;98(1):15-25. PMID: 20155503.

Duret C, Daujat-Chavanieu M, Pascussi JM, et al. Ketoconazole and miconazole are antagonists of the human glucocorticoid receptor: consequences on the expression and function of the constitutive androstane receptor and the pregnane X receptor. Mol Pharmacol. 2006 Jul;70(1):329-39. PMID: 16608920.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.