



LKT Laboratories, Inc.

Miconazole

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Product Information

Product ID M3309

CAS No. 22916-47-8

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

Synonym Monistat IV

Formula C₁₈H₁₄Cl₄N₂O

Formula Wt. 416.14

Melting Point 84.3 °C

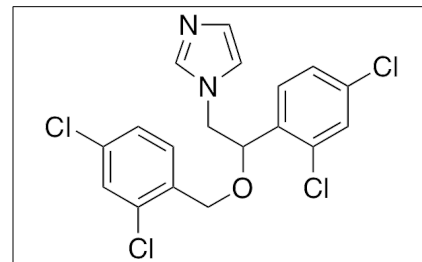
Purity ≥98%

Solubility Practically insoluble in water. Soluble in ethanol (105 mg/mL), methanol (66 mg/mL).

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.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
M3309	1 g	\$66.90
M3309	5 g	\$188.00
M3309	25 g	\$300.40

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.

Tatsumi Y, Nagashima M, Shibunushi T, et al. Mechanism of action of efinaconazole, a novel triazole antifungal agent. *Antimicrob Agents Chemother*. 2013 May;57(5):2405-2409. PMID: 23459486.

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