

Product Data Sheet

Product Name: Miconazole

Cat. No.: GC10541

Chemical Properties

Cas. No. 22916-47-8

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

SMILES C1=CC(=C(C=C1Cl)Cl)COC(CN2C=CN=C2)C3=C(C=C(C=C3)Cl)Cl

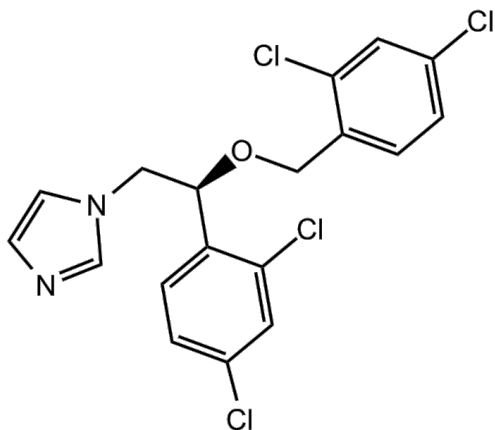
Formula $C_{18}H_{14}Cl_4N_2O$ M.Wt 416.13

Solubility $\geq 16.2\text{mg/mL}$ in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Miconazole (Monistat) is an imidazole antifungal agent. Target: Antifungal. Miconazole is an imidazole

Caution: Product has not been fully validated for medical applications. For research use only.

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antifungal agent, developed by Janssen Pharmaceutica, commonly applied topically to the skin or to mucous membranes to cure fungal infections. It works by inhibiting the synthesis of ergosterol, a critical component of fungal cell membranes. It can also be used against certain species of Leishmania protozoa which are a type of unicellular parasite that also contain ergosterol in their cell membranes. In addition to its antifungal and antiparasitic actions, it also has some antibacterial properties. Miconazole is also used in Ektachrome film developing in the final rinse of the Kodak E-6 process and similar Fuji CR-56 process, replacing formaldehyde. Fuji Hunt also includes miconazole as a final rinse additive in their formulation of the C-41RA rapid access color negative developing process. From Wikipedia.

References:

[1]. <http://en.wikipedia.org/wiki/Miconazole>

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