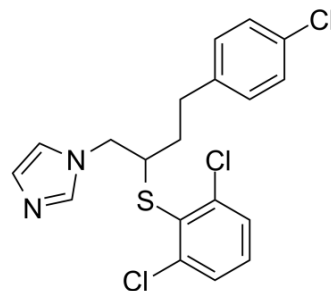


Butoconazole

Cat. No.:	HY-B0293A
CAS No.:	64872-76-0
Molecular Formula:	C ₁₉ H ₁₇ Cl ₃ N ₂ S
Molecular Weight:	411.78
Target:	Fungal
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Butoconazole, an imidazole antifungal agent, is active against <i>Candida</i> spp. and effective against vaginal infections due to <i>Candida albicans</i> . Butoconazole is presumed to function as other imidazole derivatives via inhibition of steroid synthesis ^[1] [2].
In Vitro	Imidazoles generally inhibit the conversion of lanosterol to ergosterol, resulting in a change in fungal cell membrane lipid composition. This structural change alters cell permeability and, ultimately, results in the osmotic disruption or growth inhibition of the fungal cell ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Anik ST, et al. Extreme vertexes design in formulation development: solubility of butoconazole nitrate in a multicomponent system. *J Pharm Sci.* 1981;70(8):897-900.
- [2]. Pharmacology refers to the chemical makeup and behavior of GYNAZOLE 1 (butoconazole nitrate cream).

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

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