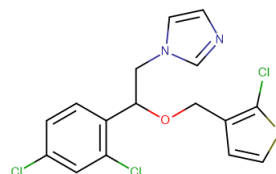


Product Name	: Vagistat
Synonyms	: (±)-Tioconazole
Cat No.	: M15506
CAS Number	: 65899-73-2
Molecular Formula	: C ₁₆ H ₁₃ Cl ₃ N ₂ O ₂ S
Formula Weight	: 387.71
Chemical Name	: 1-(2-((2-chlorothiophen-3-yl)methoxy)-2-(2,4-dichlorophenyl)ethyl)-1H-imidazole



Description	Tioconazole is an antifungal medication of the Imidazole class used to treat infections caused by a fungus or yeast. Tioconazole topical (skin) preparations are also available for ringworm, jock itch, athlete's foot, and tinea versicolor or "sun fungus". Tioconazole interacts with 14-α demethylase, a cytochrome P-450 enzyme that converts lanosterol to ergosterol, an essential component of the yeast membrane. In this way, tioconazole inhibits ergosterol synthesis, resulting in increased cellular permeability.
Pathway	: Microbiology/Virology
Target	: Antifection
Receptor	: 14- α Demethylase
Solubility	: Ethanol: 78 mg/mL (201.18 mM); DMSO: 78 mg/mL (201.18 mM)
SMILES	: <chem>C1=CC(=C(C=C1Cl)Cl)C(CN2C=CN=C2)OCC3=C(SC=C3)Cl</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Ballard SA, et al. Biochem Pharmacol. 1988 Dec 15;37(24):4643-5