
Catalog	Unit
TBI3955-50MG	50 mg
TBI3955-250MG	250 mg

Product Details

Formal Name: 1-[2-[(4-Chlorophenyl)methylsulfanyl]-2-(2,4-dichlorophenyl)ethyl]imidazole nitrate

Alternate Names: 1-(2-((4-Chlorobenzyl)thio)-2-(2,4-dichlorophenyl)ethyl)-1H-imidazole nitrate

Molecular Formula: C₁₈H₁₅Cl₃N₂S·HNO₃

Formula Weight: 460.80

CAS Number: 61318-91-0

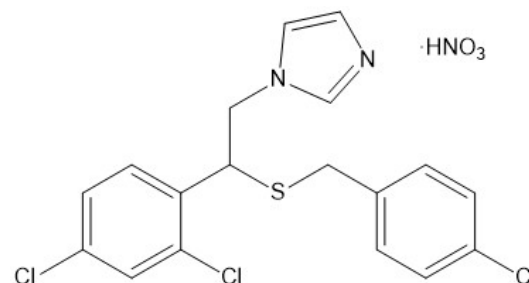
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to at least 25 mg/ml)

Storage: -20°C

Stability: ≥ 2 years.



Applications

Antifungal/Prevents cancer stem cell formation

Functions

Broad-spectrum imidazole antifungal used for the treatment of various skin infections. It inhibits the cytochrome P450 isozyme, C-14-alpha demethylase, preventing ergosterol synthesis. Sulconazole inhibited mammosphere formation, reduced NF-kB, and reduced extracellular IL-8 formation in breast cancer cells leading to inhibition of cancer stem cell formation. It has a similar effect on glioma stem cells.

Application Procedures

First dissolved in DMSO (up to at least 25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 1 month.

For research use only.