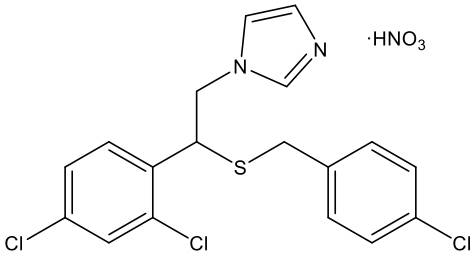
Catalog # 10-3955

Sulconazole

CAS# 61318-91-0

1-[2-[(4-Chlorophenyl)methylsulfanyl]-2-(2,4-dichlorophenyl)ethyl]imidazole nitrate;
1-(2-((4-Chlorobenzyl)thio)-2-(2,4-dichlorophenyl)ethyl)-1H-imidazole nitrate

Lot # FBS3059



Sulconazole is a 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.[1] It has a similar effect on glioma stem cells.[2]

1) Choi *et al*. (2019), *Disruption of the NF-kB/IL-8 Signaling Axis by Sulconazole Inhibits Human Breast Cancer Stem Cell formation;* Cells, **8** 1007
2) Yoon *et al*. (2021), *A chemical biology approach reveals a dependency of glioblastoma on biotin distribution;* Sci. Adv., **7** eabf6033

PHYSICAL DATA

Molecular Weight:	460.75
Molecular Formula:	$C_{18}H_{15}Cl_3N_2S \cdot HNO_3$
Purity:	>98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month.

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