

PRODUCT: Posaconazole

ALTERNATE NAME: 2,5-Anhydro-1,3,4-trideoxy-2-C-(2,4-difluorophenyl)-4-[[4-[4-[4-[1-[(1S,2S)-1-ethyl-2-hydroxypropyl]-1,5-dihydro-5-oxo-4H-1,2,4-triazol-4-yl]phenyl]-1-piperazinyl]phenoxy]methyl]-1-(1H-1,2,4-triazol-1-yl)-D-threo-pentitol; Noxafil

CATALOG #: 9526-10, 50

AMOUNT: 10 mg, 50 mg

STRUCTURE:



MOLECULAR FORMULA: C₃₇H₄₂F₂N₈O₄

MOLECULAR WEIGHT: 700.78

CAS NUMBER: 171228-49-2

APPEARANCE: White to off-white solid

SOLUBILITY: DMSO (0.5 mg/ml)

PURITY: ≥98%

STORAGE: Store at -20°C. Protect from air and light

DESCRIPTION: Posaconazole is a broad-spectrum, second-generation triazole compound that displays antifungal activity. Posaconazole inhibits the growth of fungi by inhibiting the lanosterol 14 α -demethylase enzyme (IC₅₀s range from 7-200 nM), which results in a disruption the synthesis of ergosterol, a key sterol necessary for fungal cell membrane integrity and for the function of certain membrane-bound proteins.

REFERENCES: Munayyer, H.K., *et al.* (2004). *Antimicrob. Agents Chemother.* **48**, 3690-3696.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

Bakuchiol (**2494-1,5**)

Caspofungin acetate (**Cat. No. 2584-5,25**)

Itraconazole (**Cat. No. 1987-50, 100, 500, 1000**)

Metronidazole (**9511-1G, 5G**)

Micafungin sodium (**Cat.No. 2585-5,25**)

Nimorazole (**9510-50, 250**)

Pseudolaric Acid B (**Cat. No. 2512-1,5**)

USAGE: **FOR RESEARCH CH USE ONLY! Not to be used in humans**