PRODUCT INFORMATION

Hydroxy Itraconazole
Item No. 22576

CAS Registry No.: 112559-91-8
Formal Name: 4-[4-[4-[[2-(2,4-dichlorophenyl)-2-(1H-1,2,4-triazol-1-ylmethyl)-1,3-dioxolan-4-yl]methoxy]phenyl]-1-piperazinyl]phenyl]-2,4-dihydro-2-(2-hydroxy-1-methylpropyl)-3H-1,2,4-triazol-3-one

Synonyms: OH-ITZ, hydroxy-ITZ
MF: C_{35}H_{38}Cl_{2}N_{8}O_{5}
FW: 721.6
Purity: ≥95% (mixture of diastereomers)
Supplied as: A solid
Storage: 2-8°C
Stability: ≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Description

Hydroxy itraconazole is an active metabolite of the antifungal agent itraconazole (Item No. 13288). Itraconazole is metabolized by the cytochrome P450 isoform 3A4 (CYP3A4) to form hydroxy itraconazole. Hydroxy itraconazole exhibits in vitro antifungal activity (MIC = 0.019, 0.078, and 0.078 mg/ml against C. albicans, A. fumigatus, and C. neoformans, respectively).\(^1\) Plasma concentration of hydroxy itraconazole is directly correlated to that of the parent compound and is used as an indicator of prophylaxis for fungal infections.\(^2\)

References