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Zuschläge

- Mindermengenzuschlag
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- Expressversand

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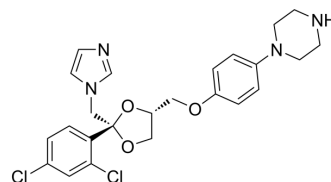
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Deacylketonazole

Cat. No.:	HY-129315
CAS No.:	67914-61-8
Molecular Formula:	C ₂₄ H ₂₆ Cl ₂ N ₄ O ₃
Molecular Weight:	489.39
Target:	Bacterial; Fungal
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Deacylketonazole (N-Deacylketonazole; R-39519) is an orally active metabolite of Ketoconazole (HY-B0105). Deacylketonazole exhibits antifungal and antibacterial activity. Deacylketonazole is cytotoxic in rats hepatocyte ^{[1][2][3]} .								
In Vitro	Deacylketonazole exhibits antifungal and antibacterial efficacy against Staphylococcus aureus, Plasmodium falciparum, Candida albicans and Candida tropicalis with MIC₅₀s of 25 µM, 0.4 µg/mL, 31 µg/mL and 62 µg/mL, respectively^{[1][2]}. Deacylketonazole (0-60 µM) exhibits cytotoxicity human liver derived HepaRG cells in a dose-dependent manner with EC₅₀ of 22.8 µM^[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Cytotoxicity Assay^[3] <table border="1"> <tr> <td>Cell Line:</td><td>HepaRG</td></tr> <tr> <td>Concentration:</td><td>0-60 µM</td></tr> <tr> <td>Incubation Time:</td><td>24 h</td></tr> <tr> <td>Result:</td><td>Exhibited cytotoxicity in a dose-dependent manner.</td></tr> </table>	Cell Line:	HepaRG	Concentration:	0-60 µM	Incubation Time:	24 h	Result:	Exhibited cytotoxicity in a dose-dependent manner.
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REFERENCES

- [1]. Pfaller MA, et al., Activity of ketoconazole and its deacyl derivative against Plasmodium falciparum and Candida isolates. Antimicrob Agents Chemother. 1982 Nov;22(5):917-9.
- [2]. Bossche H V, et al., Molecular basis for the antimycotic and antibacterial activity of N-substituted imidazoles and triazoles: The inhibition of isoprenoid biosynthesis[J]. Pesticide science, 1984, 15(2): 188-198.
- [3]. Fukami T, et al., Human arylacetamide deacetylase hydrolyzes ketoconazole to trigger hepatocellular toxicity. Biochem Pharmacol. 2016 Sep 15;116:153-61.

Caution: Product has not been fully validated for medical applications. For research use only.

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