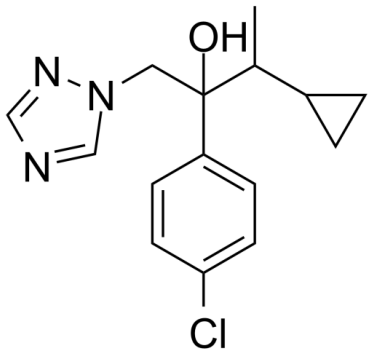
Data Sheet

Product Name:	Cyproconazole
Cat. No.:	CS-5833
CAS No.:	94361-06-5
Molecular Formula:	C15H18ClN3O
Molecular Weight:	291.78
Target:	Bacterial
Pathway:	Anti-infection
Solubility:	DMSO : ≥ 34 mg/mL (116.53 mM)



BIOLOGICAL ACTIVITY:

Cyproconazole is a triazole fungicide that is used agriculturally for protection of crops against a wide variety of fungal pathogens. In vitro: Cyproconazole has been shown to cause a dose dependent inhibition of progesterone production in human placental cells in vitro. cyproconazole exhibited the lowest capacity to increase CYP1A1 and were not able to activate the AhR in the transactivation assay. [1] In vivo: Cyproconazole, a triazole fungicide, causes hepatocellular adenomas and carcinomas in CD-1 mice at dose levels of 100 and 200 ppm. In wild-type mice, 200 ppm cyproconazole caused liver hypertrophy, increased liver weight and cell proliferation, single-cell necrosis and fat vacuolation. [2]

References:

[1]. Rieke S et al. Combination effects of (tri)azole fungicides on hormone production and xenobiotic metabolism in a humanplacental cell line. Int J Environ Res Public Health. 2014 Sep 17;11(9):9660-79.

[2]. Peffer RC et al. Mouse liver effects of cyproconazole, a triazole fungicide: role of the constitutive androstane receptor. Toxicol Sci. 2007 Sep;99(1):315-25.

CAIndexNames:

1H-1,2,4-Triazole-1-ethanol, α-(4-chlorophenyl)-α-(1-cyclopropylethyl)-

SMILES:

ClC1=CC=C(C(C(C)C2CC2)(O)CN3N=CN=C3)C=C1

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

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