



LKT Laboratories, Inc.

Cyproconazole

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## Product Information

Product ID C9863

CAS No. 94361-06-5

Chemical Name

Synonym

Formula C<sub>15</sub>H<sub>18</sub>ClN<sub>3</sub>O

Formula Wt. 291.78

Melting Point 104.0-106.0

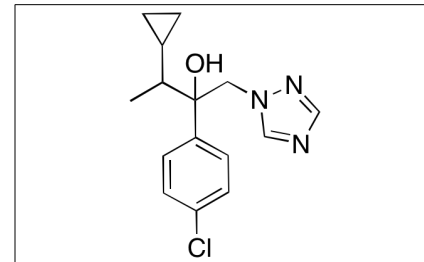
Purity ≥95%

Solubility

Store Temp Ambient

Ship Temp Ambient

**Description** Cyproconazole is a triazole fungicide/pesticide with broad spectrum antifungal activity. Like many azole fungicides, cyproconazole likely inhibits 14- $\alpha$  demethylase, inhibiting ergosterol production and fungal cell wall synthesis. Additionally, cyproconazole may inhibit aromatase. Cyproconazole may exhibit carcinogenic activity in vivo, altering hepatic cell proliferation, serum cholesterol, and hepatic retinoic acid levels in an androgen receptor-dependent manner. Additionally, cyproconazole also acts as a nonspecific inhibitor of voltage-gated Ca<sup>2+</sup> channels in PC12 neurons, modulating intracellular Ca<sup>2+</sup> levels.



**Bulk quantities available upon request**

Product ID	Size
C9863	5 g
C9863	10 g
C9863	100 g

**References** Heusinkveld HJ, Molendijk J, van den Berg M, et al. Azole fungicides disturb intracellular Ca<sup>2+</sup> in an additive manner in dopaminergic PC12 cells. *Toxicol Sci.* 2013 Aug;134(2):374-81. PMID: 23708404.

Hester S, Moore T, Padgett WT, et al. The hepatocarcinogenic conazoles: cyproconazole, epoxiconazole, and propiconazole induce a common set of toxicological and transcriptional responses. *Toxicol Sci.* 2012 May;127(1):54-65. PMID: 22334560.

Peffer RC, Moggs JG, Pastoor T, et al. Mouse liver effects of cyproconazole, a triazole fungicide: role of the constitutive androstane receptor. *Toxicol Sci.* 2007 Sep;99(1):315-25. PMID: 17557908.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.