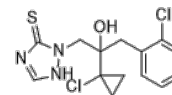


Product Name : Prothioconazole
Cat. No. : PC-27021
CAS No. : 178928-70-6
Molecular Formula : C₁₄H₁₅Cl₂N₃OS
Molecular Weight : 344.25
Target : Fungal
Solubility : 10 mM in DMSO



Biological Activity

Prothioconazole (JAU-6476) is an orally active broad-spectrum fungicide, inhibits CaCYP51 activity in *Candida albicans*, belongs to the class of demethylation inhibitor and hinders the fungal sterol synthesis.

Prothioconazole induces Mitochondrial dysfunction, oxidative stress, DNA damage, and Apoptosis.

Prothioconazole disrupts Microtubule stability by reducing the acetylation level of α -tubulin.

Prothioconazole interferes with pyruvate metabolism and glycolysis/gluconeogenesis processes in mouse liver, downregulates Fasn mRNA expression, and induces hepatotoxicity and renal metabolic disorders.

References

Audenaert K, et al. BMC Microbiol. 2010 Apr 15;10:112.

Halley S, et al. Plant Dis. 2004 Oct;88(10):1123-1126.

Parker JE, et al. Appl Environ Microbiol. 2013;79(5):1639-1645.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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