LKT Laboratories, Inc.

Flutriafol

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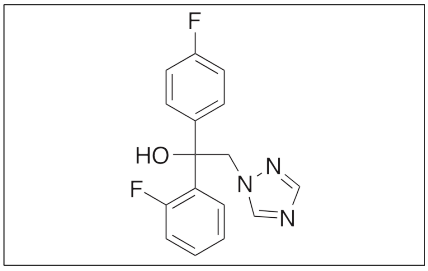
Product Information

Product ID F4883
CAS No. 76674-21-0
Chemical Name 1-(2-fluorophenyl)-1-(4-fluorophenyl)-2-(1,2,4-triazol-1-yl) ethanol
Synonym Impact



Formula $C_{16}H_{13}F_2N_3O$
Formula Wt. 301.29
Melting Point
Purity ≥97%
Solubility

Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
F4883	500 mg	$112.20
F4883	5 g	$280.60
F4883	25 g	$718.60

Store Temp Ambient
Ship Temp Ambient
Description Flutriafol is a triazole antifungal pesticide; it acts as a demethylation inhibitor, preventing sterol biosynthesis and disrupting membrane function. Flutriafol may also exhibit neuromodulatory and antioxidative activity in vivo, as it induces release of dopamine in the rat striatum through overstimulation of NMDA receptors and increasing NO production. Flutriafol-evoked dopamine release also appears to be dependent on Na+ and Ca2+ signaling.

References

Faro LR, Alfonso M, Maués LA, et al. Role of ionotropic glutamatergic receptors and nitric oxide in the effects of flutriafol, a triazole fungicide, on the in vivo striatal dopamine release. J Toxicol Sci. 2012;37(6):1135-42. PMID: 23208429.

Santana MB, Rodrigues KJ, Durán R, et al. Evaluation of the effects and mechanisms of action of flutriafol, a triazole fungicide, on striatal dopamine release by using in vivo microdialysis in freely moving rats. Ecotoxicol Environ Saf. 2009 Jul;72(5):1565-71. PMID: 19232726.

Griffiths KM, Howlett BJ. Transcription of sterol Delta(5,6)-desaturase and sterol 14alpha-demethylase is induced in the plant pathogenic ascomycete, Leptosphaeria maculans, during treatment with a triazole fungicide. FEMS Microbiol Lett. 2002 Nov 19;217(1):81-7. PMID: 12445649.