LKT Laboratories, Inc.

Zearalenone

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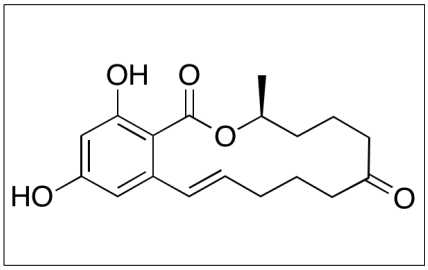
Product Information

Product ID Z1602
CAS No. 17924-92-4
Chemical Name

Synonym



Formula $C_{18}H_{22}O_5$
Formula Wt. 318.36
Melting Point 159-163°C
Purity ≥98%
Solubility

Bulk quanitites available upon request

Product ID	Size
Z1602	1 mg
Z1602	5 mg
Z1602	10 mg

Store Temp 4°C
Ship Temp Ambient

Description Zearalenone is a non-steroid mycotoxin initially produced by species of *Fusarium* that occurs as a contaminant in grain products such as cereal. Zearalenone exhibits estrogenic effects, activating estrogen receptors. In vivo, zearalenone causes hormonal effects and abnormal reproductive development. In male germ cells such as spermatocytes and spermatogonia, zearalenone induces apoptosis. In other in vitro models, this compound induces oxidative stress and cytotoxicity, altering levels of glutathione, TBARS, and HSP70.

References

Lee H, Kang C, Yoo YS, et al. Cytotoxicity and the induction of the stress protein Hsp 70 in Chang liver cells in response to zearalenone-induced oxidative stress. Environ Toxicol Pharmacol. 2013 Sep;36(2):732-40. PMID: 23917164.

Prouillac C, Koraichi F, Videmann B, et al. In vitro toxicological effects of estrogenic mycotoxins on human placental cells: structure activity relationships. Toxicol Appl Pharmacol. 2012 Mar 15;259(3):366-75. PMID: 22310176.

Kim IH, Son HY, Cho SW, et al. Zearalenone induces male germ cell apoptosis in rats. Toxicol Lett. 2003 Mar 3;138(3):185-92. PMID: 12565195.

Boyd PA, Wittliff JL. Mechanism of Fusarium mycotoxin action in mammary gland. J Toxicol Environ Health. 1978 Jan;4(1):1-8. PMID: 633402.