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Produktinformation



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



Zearalanone

Item No. 19459

CAS Registry No.: 5975-78-0
Formal Name: (3S)-3,4,5,6,9,10,11,12-octahydro-14,16-dihydroxy-3-methyl-1H-2-benzoxacyclotetradecin-1,7(8H)-dione

MF: C₁₈H₂₄O₅

FW: 320.4

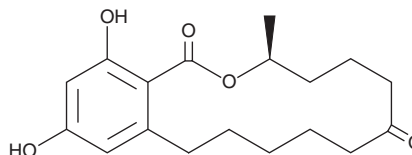
Purity: ≥98%

UV/Vis.: λ_{max}: 218, 265, 303 nm

Supplied as: A crystalline solid

Storage: -20°C

Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

Zearalanone is supplied as a crystalline solid. A stock solution may be made by dissolving the zearalanone in the solvent of choice. Zearalanone is very slightly soluble in chloroform.

Description

Zearalanone is a major phase I metabolite of the mycotoxin α-zearalanol (zearanol), a non-steroidal estrogen produced by fungi.^{1,2} Zearalanone is an estrogen receptor agonist (EC₅₀ = 0.11 μM).³ It also acts as an androgen receptor antagonist.⁴ Zearalanone, zearalenone (Item No. 11353), and related compounds can be abundant in plant material infected with *Fusarium*.⁵

References

1. Baldwin, R.S., Williams, R.D., and Terry, M.K. Zearanol: A review of the metabolism, toxicology, and analytical methods for detection of tissue residues. *Regul. Toxicol. Pharmacol.* **3**(1), 9-25 (1983).
2. Migdalof, B.H., Dugger, H.A., Heider, J.G., et al. Biotransformation of zearanol: Disposition and metabolism in the female rat, rabbit, dog, monkey and man. *Xenobiotica* **13**(4), 209-221 (1983).
3. Le Guevel, R. and Pakdel, F. Assessment of oestrogenic potency of chemicals used as growth promoter by *in vitro* methods. *Hum. Reprod.* **16**(5), 1030-1036 (2001).
4. Molina-Molina, J.M., Real, M., Jimenez-Diaz, I., et al. Assessment of estrogenic and anti-androgenic activities of the mycotoxin zearalenone and its metabolites using *in vitro* receptor-specific bioassays. *Food Chem. Toxicol.* **74**, 233-239 (2016).
5. Aoyama, K., Ishikuro, E., Noriduki, H., et al. Formation ratios of zearalanone, zearalenols, and zearalanols versus zearalenone during incubation of *Fusarium semitectum* on sorghum and ratios in naturally contaminated sorghum. *Food Hyg. Saf. Sci.* **56**(6), 247-251 (2015).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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