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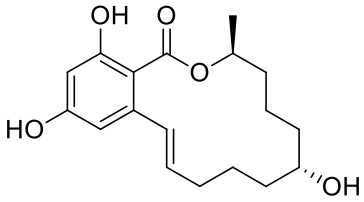
PRODUCT DATA SHEET

α-Zearalenol

Code No.: **BIA-Z1141**

Pack sizes: **5 mg, 25 mg**



Synonyms : α-Zearalenol

Specifications

CAS #	:	**36455-72-8**
Molecular Formula	:	**$C_{18}H_{24}O_5$**
Molecular Weight	:	**320.3**
Source	:	***Fusarium* sp.**
Appearance	:	**White solid**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in methanol, DMSO. Limited water solubility.**

Application Notes

α-Zearalenol is a mycotoxin produced by several species of Fusarium. α-Zearalenol exhibits pronounced estrogenic activity, being 3-fold more active than zearalenone. Contamination of grains, notably maize, by Fusarium species gives rise to high levels of zearalenol and is regarded as an important food quality issue for both human and animal health.

References

1. Identification of the naturally occuring isomer of zearalenol produced by Fusarium roseum 'Gibbosum' in rice culture. Hagler W.M. et al., Appl. Environ. Microbiol. 1979, 37, 849.
2. Binding properties of zearalenone mycotoxins to hepatic estrogen receptors. Powell-Jones, W., et al., Mol. Pharmacol. 1981, 20, 35.
3. Estrogenic activity of zearalenone and zearalanol in the neonatal rat uterus. Sheehan, D.M. et al., Teratology 1984, 90, 383.

For in vitro laboratory use only. Not for human or animal use.

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