



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

# PRODUCT INFORMATION



## β-Zearalenol

Item No. 19460

**CAS Registry No.:** 71030-11-0  
**Formal Name:** (3S,7S,11E)-3,4,5,6,7,8,9,10-octahydro-

**Synonyms:** β-trans-Zearalenol, (-)-β-Zearalenol

**MF:** C<sub>18</sub>H<sub>24</sub>O<sub>5</sub>

**FW:** 320.4

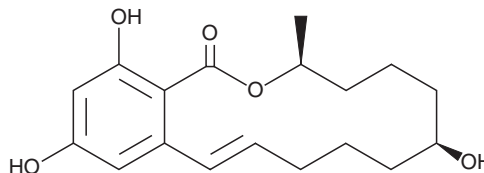
**Purity:** ≥98%

**Supplied as:** A solid

**Storage:** -20°C

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

**Special Conditions:** Light sensitive



### Laboratory Procedures

β-Zearalenol is supplied as a solid. A stock solution may be made by dissolving the β-zearalenol in the solvent of choice. β-Zearalenol is slightly soluble in organic solvents such as acetone and methanol.

### Description

β-Zearalenol is a hepatic metabolite of zearalenone (Item No. 11353), a mycotoxin produced by fungi in food and animal feeds.<sup>1,2</sup> It is a less potent agonist of estrogen receptors than the parent compound.<sup>3</sup> However, β-zearalenol has pronounced effects on uterotrophic activity and sperm acrosome reaction.<sup>4-6</sup>

### References

1. Zinedine, A., Soriano, J. M., Moltó, J.C., *et al.* Review on the toxicity, occurrence, metabolism, detoxification, regulations and intake of zearalenone: An oestrogenic mycotoxin. *Food Chem. Toxicol.* **45**, 1-18 (2007).
2. Ueno, Y. and Tashiro, F. α-Zearalenol, a major hepatic metabolite in rats of zearalenone, an estrogenic mycotoxin of *Fusarium* species. *J. Biochem.* **89(2)**, 563-571 (1981).
3. Kiang, D. T., Kennedy, B. J., Pathre, S. V., *et al.* Binding characteristics of zearalenone analogs to estrogen receptors. *Cancer Res.* **38(11 Pt 1)**, 3611-3615 (1978).
4. Mirocha, C. J., Pathre, S. V., Behrens, J., *et al.* Uterotrophic activity of cis and trans isomers of zearalenone and zearalenol. *Appl. Environ. Microbiol.* **35(5)**, 986-987 (1978).
5. Filannino, A., Stout, T. A. E., Gadella, B. M., *et al.* Dose-response effects of estrogenic mycotoxins (zearalenone, α- and β-zearalenol) on motility, hyperactivation and the acrosome reaction of stallion sperm. *Reprod. Biol. Endocrinol.* **9**, 1-10 (2011).
6. Wang, H., Camargo Rodriguez, O., and Memili, E. Mycotoxin α-zearalenol impairs the quality of preimplantation porcine embryos. *J. Reprod. Dev.* **58(3)**, 338-343 (2012).

#### 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.

#### WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 09/06/2016

#### CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD  
ANN ARBOR, MI 48108 · USA

**PHONE:** [800] 364-9897  
[734] 971-3335

**FAX:** [734] 971-3640

CUSTSERV@CAYMANCHEM.COM  
WWW.CAYMANCHEM.COM