



# 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)

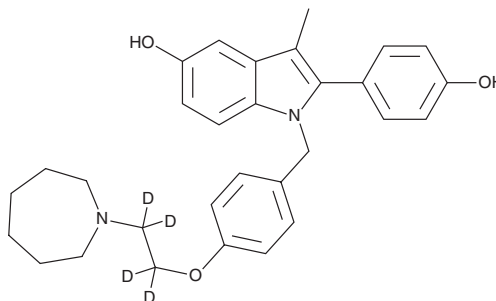
[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

# PRODUCT INFORMATION



## Bazedoxifene-d<sub>4</sub> Item No. 22554

**CAS Registry No.:** 1133695-49-4  
**Formal Name:** 1-[[4-[2-(hexahydro-1H-azepin-1-yl)ethoxy-1,1,2,2-d<sub>4</sub>]phenyl]methyl]-2-(4-hydroxyphenyl)-3-methyl-1H-indol-5-ol  
**MF:** C<sub>30</sub>H<sub>30</sub>D<sub>4</sub>N<sub>2</sub>O<sub>3</sub>  
**FW:** 474.6  
**Chemical Purity:** ≥98% (Bazedoxifene)  
**Deuterium Incorporation:** ≥99% deuterated forms (d<sub>1</sub>-d<sub>4</sub>); ≤1% d<sub>0</sub>  
**Supplied as:** A solid  
**Storage:** 2-8°C  
**Stability:** ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

Bazedoxifene-d<sub>4</sub> is intended for use as an internal standard for the quantification of bazedoxifene (Item No. 15005) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated versus unlabeled).

### Description

Bazedoxifene is a third generation selective estrogen receptor modulator (SERM). It is an indole-based ER ligand that binds to both ER $\alpha$  (IC<sub>50</sub> = 26 nM) and ER $\beta$  (IC<sub>50</sub> = 99 nM).<sup>1</sup> Bazedoxifene antagonizes 17 $\beta$ -estradiol-dependent MCF-7 and T47D breast cancer cell proliferation *in vitro* as well as hormone-independent growth of MCF-7:5C cells that are resistant to long-term estrogen deprivation (80% reduction with 10 nM).<sup>2</sup> It has been shown to arrest cell cycling by downregulating cyclin D1 and ER $\alpha$ .

### References

1. Komm, B.S., Kharode, Y.P., Bodine, P.V.N., *et al.* Bazedoxifene acetate: A selective estrogen receptor modulator with improved selectivity. *Endocrinology* **146**(9), 3999-4008 (2005).
2. Lewis-Wambi, J.S., Kim, H., Curpan, R., *et al.* The selective estrogen receptor modulator bazedoxifene inhibits hormone-independent breast cancer cell growth and down-regulates estrogen receptor  $\alpha$  and cyclin D1. *Mol. Pharmacol.* **80**(4), 610-620 (2011).

#### 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, 07/13/2017

#### 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