



# 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 Handels GmbH

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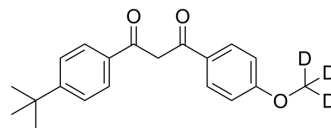
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## Avobenzene-d<sub>3</sub>

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Cat. No.:          | HY-B0316S1                                                                                |
| CAS No.:           | 2518100-58-6                                                                              |
| Molecular Formula: | C <sub>20</sub> H <sub>19</sub> D <sub>3</sub> O <sub>3</sub>                             |
| Molecular Weight:  | 313.41                                                                                    |
| Target:            | Isotope-Labeled Compounds; Apoptosis; Estrogen Receptor/ERR                               |
| Pathway:           | Others; Apoptosis; Vitamin D Related/Nuclear Receptor                                     |
| Storage:           | Please store the product under the recommended conditions in the Certificate of Analysis. |



### BIOLOGICAL ACTIVITY

#### Description

Avobenzene-d<sub>3</sub> is deuterium labeled Avobenzene. Avobenzene, a dibenzoylmethane compound, is one of the most widely used filters in sunscreens for skin photoprotection in the UVA band. Avobenzene is an endocrine disruptor that directly binds to estrogen receptor  $\beta$  and acts as an estrogen agonist<sup>[1][2][3]</sup>.

### REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Kojić M, et al. A new insight into the photochemistry of avobenzene in gas phase and acetonitrile from ab initio calculations. *Phys Chem Chem Phys*. 2016;18(32):22168-22178.
- [3]. Ahn S, An S, et al. A long-wave UVA filter avobenzene induces obesogenic phenotypes in normal human epidermal keratinocytes and mesenchymal stem cells. *Arch Toxicol*. 2019;93(7):1903-1915.
- [4]. Yang C, et al. Avobenzene suppresses proliferative activity of human trophoblast cells and induces apoptosis mediated by mitochondrial disruption. *Reprod Toxicol*. 2018;81:50-57.
- [5]. Schreurs RH, et al. Interaction of polycyclic musks and UV filters with the estrogen receptor (ER), androgen receptor (AR), and progesterone receptor (PR) in reporter gene bioassays. *Toxicol Sci*. 2005;83(2):264-272.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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