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Zuschläge

- Mindermengenzuschlag
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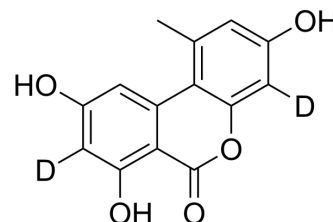
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Alternariol-d₂

Cat. No.:	HY-W653896
CAS No.:	2469262-26-6
Molecular Formula:	C ₁₄ H ₈ D ₂ O ₅
Molecular Weight:	260.24
Target:	Isotope-Labeled Compounds; Androgen Receptor; Apoptosis; Topoisomerase; Estrogen Receptor/ERR
Pathway:	Others; Vitamin D Related/Nuclear Receptor; Apoptosis; Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Alternariol-d₂ is deuterium labeled Alternariol. Alternariol is an orally ingested mycotoxin produced by Alternaria, capable of inhibiting the activity of topoisomerase I and II (topoisomerase I, topoisomerase II). Alternariol has weak estrogenic (Estrogen Receptor/ERR) and androgen/antiandrogen (Androgen Receptor) effects. Alternariol can induce apoptosis, trigger cell cycle arrest, suppress innate immune responses, and exhibit anti-tumor activity. Alternariol has genotoxic, mutagenic, and endocrine-disrupting effects^{[1][2][3][4][5][6]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Fliszár-Nyúl E, et al. Interaction of Mycotoxin Alternariol with Serum Albumin. *Int J Mol Sci*. 2019 May 12;20(9). pii: E2352.
- [3]. Eva-Maria Brugger, et al. Mutagenicity of the mycotoxin alternariol in cultured mammalian cells. *Toxicol Lett*. 2006 Jul 14;164(3):221-30.
- [4]. Grover S, et al. The Alternaria alternate Mycotoxin Alternariol Suppresses Lipopolysaccharide-Induced Inflammation. *Int J Mol Sci*. 2017 Jul 20;18(7). pii: E1577.
- [5]. Chien-Hsun Huang, et al. Alternariol exerts embryotoxic and immunotoxic effects on mouse blastocysts through ROS-mediated apoptotic processes. *Toxicol Res (Camb)*. 2021 Jun 16;10(4):719-732.
- [6]. Jian Xin, et al. Alternariol alleviates breast carcinoma by inhibiting cellular proliferation correlated with increased apoptotic events in rats. *European Journal of Inflammation*. Volume 20: 1–13

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

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