



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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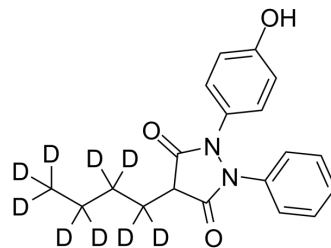
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## Oxyphenbutazone-d9

<b>Cat. No.:</b>	HY-B1355AS
<b>CAS No.:</b>	1189693-23-9
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>11</sub> D <sub>9</sub> N <sub>2</sub> O <sub>3</sub>
<b>Molecular Weight:</b>	333.43
<b>Target:</b>	COX; Bacterial
<b>Pathway:</b>	Immunology/Inflammation; Anti-infection
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Oxyphenbutazone-d9 is the deuterium labeled <a href="#">Oxyphenbutazone</a> (HY-B1355A). Oxyphenbutazone is a phenylbutazone derivative, with anti-inflammatory effect. Oxyphenbutazone is a non-selective COX inhibitor. Oxyphenbutazone is the metabolite of <a href="#">Phenylbutazone</a> (HY-B0230). Oxyphenbutazone selectively kills non-replicating Mycobacterium tuberculosis <sup>[1]</sup> [2][3].
<b>IC<sub>50</sub> &amp; Target</b>	COX, Bacteria <sup>[2][3]</sup>
<b>In Vitro</b>	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.
- [2]. Saleem S, et al. Oxyphenbutazone promotes cytotoxicity in rats and Hep3B cells via suppression of PGE2 and deactivation of Wnt/ $\beta$ -catenin signaling pathway. *Mol Cell Biochem.* 2018 Jul;444(1-2):187-196.
- [3]. Gold B, et al. Nonsteroidal anti-inflammatory drug sensitizes Mycobacterium tuberculosis to endogenous and exogenous antimicrobials. *Proc Natl Acad Sci U S A.* 2012 Oct 2;109(40):16004-11.

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

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