



# 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

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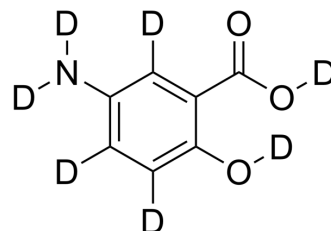
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## 5-Aminosalicylic acid-d<sub>7</sub>

|                           |                                                                                                                   |
|---------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Cat. No.:</b>          | HY-15027S4                                                                                                        |
| <b>Molecular Formula:</b> | C <sub>7</sub> D <sub>7</sub> NO <sub>3</sub>                                                                     |
| <b>Molecular Weight:</b>  | 160.18                                                                                                            |
| <b>Target:</b>            | Isotope-Labeled Compounds; PPAR; PAK; Endogenous Metabolite; NF-κB                                                |
| <b>Pathway:</b>           | Others; Cell Cycle/DNA Damage; Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor; Cytoskeleton; NF-κB |
| <b>Storage:</b>           | Please store the product under the recommended conditions in the Certificate of Analysis.                         |



### BIOLOGICAL ACTIVITY

#### Description

5-Aminosalicylic acid-d<sub>7</sub> (5-ASA-d<sub>7</sub>; Mesalamie-d<sub>7</sub>; Mesalazie-d<sub>7</sub>) is deuterium labeled 5-Aminosalicylic Acid. 5-Aminosalicylic acid (Mesalamine) acts as a specific PPAR $\gamma$  agonist and also inhibits p21-activated kinase 1 (PAK1) and NF-κB. 5-Aminosalicylic acid can inhibit the activity of osteopontin (OPN)<sup>[1]</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]. Rousseaux C, et al. The 5-aminosalicylic acid antineoplastic effect in the intestine is mediated by PPAR $\gamma$ . *Carcinogenesis*. 2013 Nov;34(11):2580-6.
- [3]. Dammann K, et al. PAK1 modulates a PPAR $\gamma$ /NF-κB cascade in intestinal inflammation. *Biochim Biophys Acta*. 2015 Oct;1853(10 Pt A):2349-60.
- [4]. Fang HM, et al. 5-aminosalicylic acid in combination with Nimesulide inhibits proliferation of colon carcinoma cells in vitro. *World J Gastroenterol*. 2007 May 28;13(20):2872-7.
- [5]. Ramadan A, et al. Mesalazine, an osteopontin inhibitor: The potential prophylactic and remedial roles in induced liver fibrosis in rats. *Chem Biol Interact*. 2018 Jun 1;289:109-118.

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

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