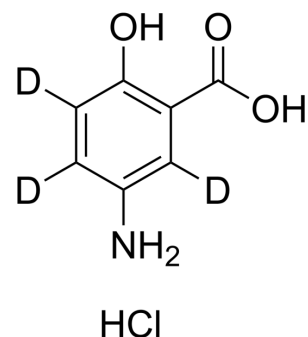


## 5-Aminosalicylic Acid-d<sub>3</sub> hydrochloride

<b>Cat. No.:</b>	HY-15027S
<b>CAS No.:</b>	1346601-18-0
<b>Molecular Formula:</b>	C <sub>7</sub> H <sub>3</sub> D <sub>3</sub> ClNO <sub>3</sub>
<b>Molecular Weight:</b>	192.61
<b>Target:</b>	PPAR; PAK; NF-κB; Endogenous Metabolite; Isotope-Labeled Compounds
<b>Pathway:</b>	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor; Cytoskeleton; NF-κB; Others
<b>Storage:</b>	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### BIOLOGICAL ACTIVITY

<b>Description</b>	5-Aminosalicylic Acid-d <sub>3</sub> (hydrochloride) is the deuterium labeled 5-Aminosalicylic Acid. 5-Aminosalicylic acid (Mesalamine) hydrochloride acts as a specific PPAR $\gamma$ agonist and also inhibits p21-activated kinase 1 (PAK1) and NF-κB.
<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]. 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.; 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.; 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.

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

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