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Zuschläge

- Mindermengenzuschlag
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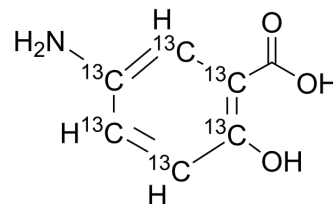
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5-Aminosalicylic acid-¹³C₆

Cat. No.:	HY-15027S2
CAS No.:	1189709-96-3
Molecular Formula:	C ¹³ ₆ H ₇ NO ₃
Molecular Weight:	159.09
Target:	PPAR; PAK; NF-κB; Endogenous Metabolite
Pathway:	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor; Cytoskeleton; NF-κB
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	5-Aminosalicylic acid- ¹³ C ₆ is the ¹³ C labeled 5-Aminosalicylic Acid[1]. 5-Aminosalicylic acid (Mesalamine) acts as a specific PPAR _γ agonist and also inhibits p21-activated kinase 1 (PAK1) and NF-κB[2][3][4].
In Vitro	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 ^[1] . 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 Feb;53(2):211-216.
- [2]. Dammann K, et al. PAK1 modulates a PPAR_γ/NF-κB cascade in intestinal inflammation. *Biochim Biophys Acta*. 2015 Oct;1853(10 Pt A):2349-60.
- [3]. 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.
- [4]. Rousseaux C, et al. The 5-aminosalicylic acid antineoplastic effect in the intestine is mediated by PPAR_γ. *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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