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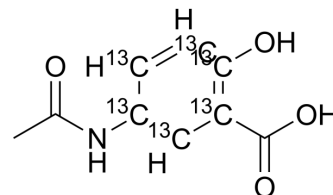
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N-Acetyl mesalazine-¹³C₆

Cat. No.:	HY-66008S2
CAS No.:	1261392-91-9
Molecular Formula:	C ₃ ¹³ C ₆ H ₉ NO ₄
Molecular Weight:	201.13
Target:	Drug Metabolite; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	N-Acetyl mesalazine- ¹³ C ₆ is a deuterated labeled N-Acetyl mesalazine ^[1] . N-Acetyl mesalazine (N-Acetyl-5-aminosalicylic acid) is the metabolite of 5-Aminosalicylic Acid (HY-15027) with endoscopic activity. N-Acetyl mesalazine can be used for the research of ulcerative colitis ^[2] .
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]. Allgayer H, et al. Modulation of base hydroxylation by bile acids and salicylates in a model of human colonic mucosal DNA: putative implications in colonic cancer. Dig Dis Sci. 1999 Apr;44(4):761-7.
- [2]. Fukuda T, et al. Mucosal concentrations of N-acetyl-5-aminosalicylic acid related to endoscopic activity in ulcerative colitis patients with mesalamine. J Gastroenterol Hepatol. 2020 Nov;35(11):1878-1885.
- [3]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.

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

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