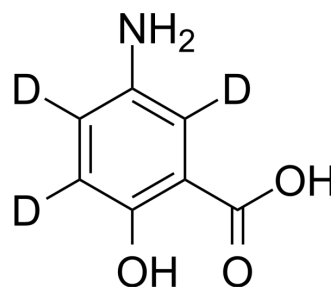


5-Aminosalicylic acid-d₃

Cat. No.:	HY-15027S1
CAS No.:	1309283-32-6
Molecular Formula:	C ₇ H ₄ D ₃ NO ₃
Molecular Weight:	156.15
Target:	Endogenous Metabolite; NF-κB; PAK; PPAR; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; NF-κB; Cell Cycle/DNA Damage; Cytoskeleton; Vitamin D Related/Nuclear Receptor; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro

DMSO : 66.67 mg/mL (426.96 mM; Need ultrasonic and warming)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	6.4041 mL	32.0205 mL	64.0410 mL
5 mM	1.2808 mL	6.4041 mL	12.8082 mL
10 mM	0.6404 mL	3.2020 mL	6.4041 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

5-Aminosalicylic acid-d₃ is the deuterium labeled 5-Aminosalicylic Acid. 5-Aminosalicylic acid (Mesalamine) acts as a specific PPAR γ agonist and also inhibits p21-activated kinase 1 (PAK1) and NF-κB[1][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.; Fang HM, et al. 5-aminosalicylic acid in combination with Nimesulide inhibits proliferation of colon carcinoma cells i

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA