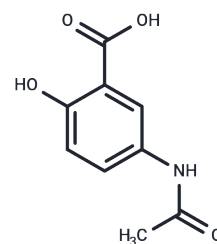


N-acetyl-5-Aminosalicylic Acid

Chemical Properties

CAS No. :	51-59-2
Formula:	C ₉ H ₉ NO ₄
Molecular Weight:	195.17
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	N-acetyl-5-Aminosalicylic Acid (N-Acetyl mesalazine) is the major metabolite of mesalazine.
Targets(IC50)	Drug Metabolite
In vitro	N-acetyl-5-Aminosalicylic Acid is a PP2A inhibitor. N-acetyl-5-Aminosalicylic Acid can be used in the study of ulcerative colitis. The inhibitory effect of flavonoids on the effluents of N-acetyl-5-Aminosalicylic Acid formed in Caco-2 cells. [4]

Solubility Information

Solubility	DMSO: 40 mg/mL (204.95 mM),Sonication is recommended. Methanol: 8 mg/mL (40.99 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.1237 mL	25.6187 mL	51.2374 mL
5 mM	1.0247 mL	5.1237 mL	10.2475 mL
10 mM	0.5124 mL	2.5619 mL	5.1237 mL
50 mM	0.1025 mL	0.5124 mL	1.0247 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

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.

Van Camp A, et al. The effect of esomeprazole on the upper GI tract release and systemic absorption of mesalazine from colon targeted formulations. *Int J Pharm*. 2022 May 10;619:121701. doi: 10.1016/j.ijpharm.2022.121701. Epub 2022 Mar 2 Erratum in: *Int J Pharm*. 2024 Apr 25;655:124087.

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