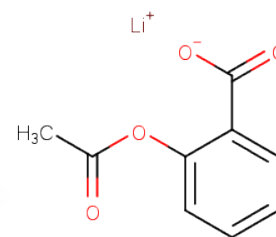


Lithium acetylsalicylate

Chemical Properties

CAS No. :	552-98-7
Formula:	C ₉ H ₇ LiO ₄
Molecular Weight:	186.09
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	Lithium acetylsalicylate is an orally active, irreversible inhibitor of cyclooxygenases COX-1 and COX-2, with IC ₅₀ values of 5 and 210 µg/mL, respectively. It can induce apoptosis, inhibit the activation of NF-κB, and suppress the activity of platelet prostaglandin synthase. It is commonly used to induce gastric ulcer models.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.3737 mL	26.8687 mL	53.7374 mL
5 mM	1.0747 mL	5.3737 mL	10.7475 mL
10 mM	0.5374 mL	2.6869 mL	5.3737 mL
50 mM	0.1075 mL	0.5374 mL	1.0747 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

Trendafelov D, Ivanov DS. Physico-chemical analysis of systems with a main component acetylsalicylic acid in ethanol-water mixtures, part 2: on the existence of potassium and lithium hydrogen acetylsalicylates. Pharmazie. 1978 Jul;33(7):441-2. PubMed PMID: 724761.

Reimann IW, Golbs E, Fischer C, Frölich JC. Influence of intravenous acetylsalicylic acid and sodium salicylate on human renal function and lithium clearance. Eur J Clin Pharmacol. 1985;29(4):435-41. PubMed PMID: 3912188.

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