



LKT Laboratories, Inc.

Acetylsalicylic Acid

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Product Information

Product ID A0819
CAS No. 50-78-2
Chemical Name 2-(Acetyloxy)benzoic acid

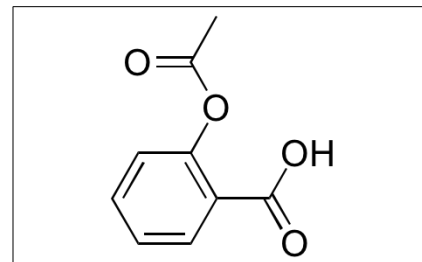
Synonym Salicylic acid acetate; aspirin

Formula $C_9H_8O_4$
Formula Wt. 180.16
Melting Point 136-140°C
Purity $\geq 98\%$
Solubility Soluble in ethanol (200 mg/mL), DMSO or water (3.3 mg/mL).

Store Temp Ambient

Ship Temp Ambient

Description Acetylsalicylic acid (aspirin) is a non-steroidal anti-inflammatory drug (NSAID) that is somewhat selective in inhibiting COX-1 over COX-2. Aspirin exhibits anti-inflammatory, analgesic, antipyretic, chemopreventive, cardioprotective, and anticoagulant/antithrombotic activities. Aspirin is clinically used to treat inflammation, fever, pain, and other disorders. Long-term use of aspirin is associated with decreased risk of colorectal and other cancers as well as cardiovascular events such as myocardial infarction. Aspirin also decreases levels of thromboxane A₂ (TxA₂), inhibiting platelet aggregation and prolonging bleeding time.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
A0819	100 g	\$39.00
A0819	250 g	\$52.00
A0819	500 g	\$78.90
A0819	1 kg	\$136.10

References Algra AM, Rothwell PM. Effects of regular aspirin on long-term cancer incidence and metastasis: a systematic comparison of evidence from observational studies versus randomised trials. *Lancet Oncol.* 2012 May;13(5):518-27. PMID: 22440112.

Bartfai T, Conti B. Fever. *ScientificWorldJournal.* 2010 Mar 16;10:490-503. PMID: 20305990.

Antithrombotic Trialists' (ATT) Collaboration: Baigent C, Blackwell L, Collins R, et al. Aspirin in the primary and secondary prevention of vascular disease: collaborative meta-analysis of individual participant data from randomised trials. *Lancet.* 2009 May 30;373(9678):1849-60. PMID: 9482214.

Tohgi H, Konno S, Tamura K, et al. Effects of low-to-high doses of aspirin on platelet aggregability and metabolites of thromboxane A₂ and prostacyclin. *Stroke.* 1992 Oct;23(10):1400-3. PMID: 1412574.

Li W, Li J, Ashok M, et al. A cardiovascular drug rescues mice from lethal sepsis by selectively attenuating a late-acting proinflammatory mediator, high mobility group box 1. *J Immunol.* 2007 Mar 15;178(6):3856-3864. PMID: 17339485.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.