

Certificate of Analysis

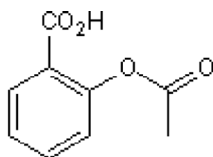
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Product Name: Aspirin
CAS Number: 50-78-2
IUPAC Name: 2-Acetoxybenzoic acid

Catalog No.: 4092 **Batch No.:** 3
EC Number: 200-064-1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₉H₈O₄.
Batch Molecular Weight: 180.16
Physical Appearance: White solid
Solubility: water to 10 mM
DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60	4.48	0
Found	60.16	4.37	0

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Catalog No.: 4092

3

CAS Number: 50-78-2

EC Number: 200-064-1

IUPAC Name: 2-Acetoxybenzoic acid

Description:

Aspirin is an inhibitor of cyclooxygenase (COX)-1. Blocks the production of prostaglandins and thromboxanes. Exhibits antiplatelet and antithrombotic activities. Displays anticancer effects in some solid tumors. One of the first described NSAID drugs.

Physical and Chemical Properties:

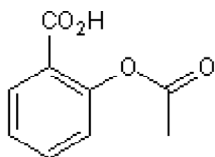
Batch Molecular Formula: C₉H₈O₄.

Batch Molecular Weight: 180.16

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 10 mM

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Schorr (1997) Aspirin and platelets: the antiplatelet action of aspirin and its role in thrombosis treatment and prophylaxis. *Semin.Thromb.Hemost.* **23** 349. PMID: 9263351.

Baron (1995) Aspirin and cancer. *Preventative Medicine* **24** 121. PMID: 7597012.

Wu et al (1991) Aspirin inhibits interleukin 1-induced prostaglandin H synthase expression in cultured endothelial cells. *Proc.Natl.Acad.Sci.U.S.A.* **15** 88. PMID: 1900943.

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