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Certificate of Analysis

www.tocris.com

Product Name: Acetaminophen

103-90-2 CAS Number: **IUPAC Name:** N-(4-Hydroxyphenyl)acetamide Catalog No.: 1706 EC Number: 203-157-5 Batch No.: 1

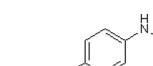
1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:

Batch Molecular Structure:

C₈H₉NO₂ 151.16 White solid phosphate buffered saline to 50 mM with gentle warming ethanol to 100 mM DMSO to 100 mM Store at RT

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2. ANALYTICAL DATA

Storage:

TLC: **Melting Point:** HPLC: ¹H NMR: **Microanalysis:** R_f = 0.64 (Dichloromethane:Methanol:Ammonia soln. [2:1:0.01]) Between 172 - 175°C Shows >99.5% purity Consistent with structure Carbon Hydrogen Nitrogen Theoretical 63.57 6 9.27

Found	63.44	6.08	9.19
		0.00	

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

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Batch No.: 1

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Product Name: Acetaminophen

CAS Number:	103-90-2
IUPAC Name:	N-(4-Hydroxyphenyl)acetamide

Description:

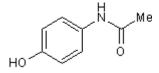
Cyclooxygenase inhibitor; may be selective for COX-3 (IC₅₀ values are 460, > 1000 and > 1000 μ M for canine COX-3, and murine COX-1 and COX-2 respectively). Widely used analgesic and antipyretic agent.

Physical and Chemical Properties:

Batch Molecular Formula: C₈H₉NO₂ Batch Molecular Weight: 151.16 Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

phosphate buffered saline to 50 mM with gentle warming ethanol to 100 mM DMSO to 100 mM

Catalog No.: 1706

EC Number: 203-157-5

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. Our standard recommendations are:

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:

Riendeau *et al* (1997) Comparison of the cyclooxygenase-1 inhibitory properties of nonsteroidal anti-inflammatory drugs (NSAIDS) and selective COX-2 inhibitors, using sensitive microsomal and platelet assays. Can.J.Physiol.Pharmacol. **75** 1088. PMID: 9365818.

Chong et al (2001) Effect of acetaminophen on atherosclerosis. Ann.Pharmacother. 35 1476. PMID: 11724102.

Chandrasekharan *et al* (2002) COX-3, a cyclooxygenase-1 variant inhibited by acetaminophen and other analgesic/antipyretic drugs: cloning, structure, and expression. Proc.Natl.Acad.Sci.U.S.A. **99** 13926. PMID: 12242329.

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