

Certificate of Analysis

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Product Name: *N*-Acetyltryptamine

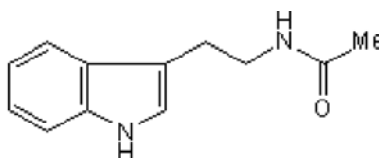
Catalog No.: 0357

Batch No.: 2

CAS Number: 1016-47-3

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₂H₁₄N₂O
Batch Molecular Weight: 202.26
Physical Appearance: Beige solid
Solubility: ethanol to 100 mM
DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	71.26	6.98	13.85
Found	70.88	6.9	13.73

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

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Product Information

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Product Name: *N*-Acetyltryptamine

Catalog No.: 0357

Batch No.: 2

CAS Number: 1016-47-3

Description:

N-Acetyltryptamine is a partial agonist for melatonin receptors in the retina. Also used for determination of serotonin *N*-acetyl transferase activity.

Physical and Chemical Properties:

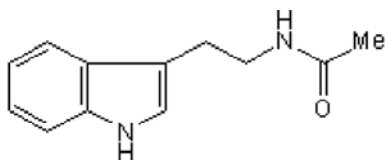
Batch Molecular Formula: C₁₂H₁₄N₂O

Batch Molecular Weight: 202.26

Physical Appearance: Beige solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

ethanol to 100 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. 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:

Dubocovich (1995) Melatonin receptors: are there multiple subtypes? *TiPS* **16** 50. PMID: 7762083.

Thomas et al (1990) Arylalkylamine (serotonin) *N*-acetyl transferase assay using high-performance liquid-chromatography with fluorescence or electrochemical detection of *N*-acetyltryptamine. *Anal.Biochem.* **184** 228. PMID: 2327568.

Dubocovich (1988) Luzindole (NO 774): a novel melatonin receptor antagonist. *J.Pharmacol.Exp.Ther.* **246** 902. PMID: 2843633.

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