

Product Name: GR 135531

Catalog No.: 0896

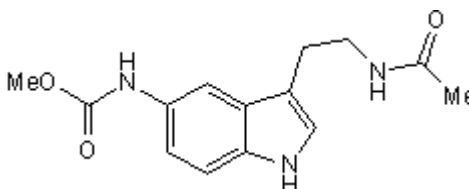
Batch No.: 6

CAS Number: 190277-13-5

IUPAC Name: 5-Methoxycarbonylamino-*N*-acetyltryptamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₁₇N₃O₃
Batch Molecular Weight: 275.31
Physical Appearance: Off-white solid
Solubility: ethanol to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.52 (Dichloromethane:Ethanol [9:1])
HPLC: Shows >98.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	61.08	6.22	15.26
Found	61.03	6.44	15.08

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

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IUPAC Name: 5-Methoxycarbonylamino-*N*-acetyltryptamine

Description:

Binds with high affinity to MT₃ melatonin sites in hamster brain, and low affinity (and no efficacy) at MT₁ and MT₂ melatonin receptors and thus can be used to discriminate between the melatonin receptor subtypes.

Physical and Chemical Properties:

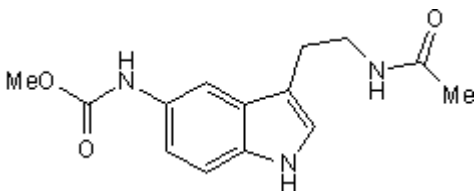
Batch Molecular Formula: C₁₄H₁₇N₃O₃

Batch Molecular Weight: 275.31

Physical Appearance: Off-white solid

Minimum Purity: >97%

Batch Molecular Structure:



References:

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

Lucchelli et al (1997) Investigation into the contractile response of melatonin in the guinea-pig isolated proximal colon: the role of 5-HT₄ and melatonin receptors. *Br.J.Pharmacol.* **121** 1775. PMID: 9283717.

Storage: Store at RT

Solubility & Usage Info:

ethanol 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.

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