

Print Date: Nov 2nd 2016



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Product Name: 6-Chloromelatonin Catalog No.: 0443 Batch No.: 2

CAS Number: 63762-74-3

IUPAC Name: N-[2-(6-Chloro-5-methoxyindol-3-yl)ethyl]acetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{13}H_{15}CIN_2O_2$

Batch Molecular Weight: 266.73

Physical Appearance: White crystalline solid
Solubility: DMSO to 100 mM
Storage: Desiccate at +4°C

Batch Molecular Structure:

2. ANALYTICAL DATA

TLC: $R_f = 0.35$ (Chloroform:Methanol [95:5])

Melting Point:

HPLC:

Shows >99.6% purity

HNMR:

Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 58.54 5.67 10.5 0 0 0 Found 58.35 5.58 10.41 0 0 0



Product Information

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IUPAC Name: N-[2-(6-Chloro-5-methoxyindol-3-yl)ethyl]acetamide

Description:

Potent melatonin agonist (p K_i values are 9.10 and 9.77 for human recombinant MT_1 and MT_2 receptors respectively). Displays higher affinity for binding to hamster brain membrane and chicken retina than melatonin.

Physical and Chemical Properties:

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Batch Molecular Weight: 266.73

Physical Appearance: White crystalline solid

Minimum Purity: >99%

Batch Molecular Structure:

Storage: Desiccate at +4°C

Solubility & Usage Info:

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:

Browning *et al* (2000) Pharmacological characterization of human recombinant melatonin mt₁ and MT₂ receptors. Br.J.Pharmacol. *129* 877. PMID: 10696085.

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

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

Duncan *et al* (1988) 2-[125I]lodomelatonin binding sites in hamster brain membranes: pharmacological characteristics and regional distribution. Endocrinology **122** 1825. PMID: 2834175.