Product Name: 2-Iodomelatonin
Catalog No.: 0737
Batch No.: 7
CAS Number: 93515-00-5
IUPAC Name: N-[2-(2-Iodo-5-methoxyindol-3-yl)ethyl]acetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( C_{13}H_{15}IN_{2}O_{2} \)
Batch Molecular Weight: 358.18
Physical Appearance: Cream solid
Solubility: DMSO to 100 mM, ethanol to 100 mM
Storage: Store at -20°C

2. ANALYTICAL DATA

TLC: \( R_f = 0.38 \) (Ethyl acetate:Petroleum ether [2:1])
HPLC: Shows 98.7% purity
\(^1\)H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
<th>Found</th>
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<tbody>
<tr>
<td>Carbon</td>
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<tr>
<td>Hydrogen</td>
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<tr>
<td>Nitrogen</td>
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<td>7.66</td>
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</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
**Product Name:** 2-Iodomelatonin

**CAS Number:** 93515-00-5

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

**Description:**
Potent melatonin agonist (pKᵢ values are 10.55 and 9.87 at human recombinant MT₁ and MT₂ receptors respectively). 2-[¹²⁵I]-iodomelatonin has been used to identify, characterize and localize melatonin binding sites in the brain and peripheral tissues.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C₁₃H₁₅N₂O₂
- **Batch Molecular Weight:** 358.18
- **Physical Appearance:** Cream solid
- **Minimum Purity:** >98%

**Storage:** Store at -20°C

**CAUTION** - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Solubility & Usage Info:**
- DMSO to 100 mM
- 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.

**References:**