# a biotechne brand

#### Print Date: Jan 27th 2020

# **Certificate of Analysis**

# www.tocris.com

Batch No.: 7

Catalog No.: 0737

### Product Name: 2-lodomelatonin

CAS Number:93515-00-5IUPAC Name:N-[2-(2-lodo-5-methoxyindol-3-yl)ethyl]acetamide

# 1. PHYSICAL AND CHEMICAL PROPERTIES

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

**Batch Molecular Structure:** 

C<sub>13</sub>H<sub>15</sub>IN<sub>2</sub>O<sub>2</sub> 358.18 Cream solid DMSO to 100 mM ethanol to 100 mM Store at -20°C

MeO. Me

## 2. ANALYTICAL DATA

Storage:

TLC: HPLC: <sup>1</sup>H NMR: Mass Spectrum: Microanalysis:

R<sub>f</sub> = 0.38 (Ethyl acetate:Petroleum ether [2:1]) Shows 98.6% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen Theoretical 43.59 4.22 7.82

Found	43.57	4.14	7.66

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

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# TOCRIS a biotechne brand

#### Print Date: Jan 27th 2020

Batch No.: 7

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#### Product Name: 2-lodomelatonin

CAS Number: 93515-00-5 IUPAC Name: *N*-[2-(2-lodo-5-methoxyindol-3-yl)ethyl]acetamide

#### Description:

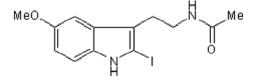
Potent melatonin agonist (pK<sub>i</sub> values are 10.55 and 9.87 at human recombinant  $MT_1$  and  $MT_2$  receptors respectively). 2-[<sup>125</sup>] -iodomelatonin has been used to identify, characterize and localize melatonin binding sites in the brain and peripheral tissues.

#### **Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>13</sub>H<sub>15</sub>IN<sub>2</sub>O<sub>2</sub> Batch Molecular Weight: 358.18 Physical Appearance: Cream solid

#### Minimum Purity: ≥98%

#### **Batch Molecular Structure:**



#### 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.

Catalog No.: 0737

#### 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:**

**Browning** *et al* (2000) Pharmacological characterization of human recombinant melatonin  $mt_1$  and  $MT_2$  receptors. Br.J.Pharmacol. **129** 877. PMID: 10696085.

**Suiciak** *et al* (1991) Quantitative pharmacological analysis of 2-[125]]-iodomelatonin binding sites in discrete areas of the chicken brain. J.Neurosci. **11** 2855. PMID: 1652626.

**Dubocovich and Takahashi** (1987) Use of 2-[<sup>125</sup>I]-iodomelatonin to characterize melatonin sites in chicken retina. Proc.Natl.Acad.Sci.U.S.A. *84* 3916. PMID: 3035559.

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