

**Product Name:** Tasimelteon

**Catalog No.:** 7493

**Batch No.:** 1

CAS Number: 609799-22-6

IUPAC Name: *N*-[[*(1R,2R)*-2-(2,3-Dihydro-4-benzofuranyl)cyclopropyl]methyl]propanamide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>15</sub>H<sub>19</sub>NO<sub>2</sub>  
**Batch Molecular Weight:** 245.32  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 100 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.8% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Optical Rotation:** [α]<sub>D</sub> = -42.2 (Concentration = 1, Solvent = Chloroform)  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	73.44	7.81	5.71
Found	73.87	7.81	5.73

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

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**Description:**

Tasimelton is a high affinity and selective dual melatonin receptor (MT<sub>1</sub>/MT<sub>2</sub>) agonist (K<sub>i</sub> values are 0.304 nM and 0.0692 nM, respectively). It has no significant interaction with any other commonly screened receptors or enzyme binding sites. Tasimelton induces a potent, concentration-dependent inhibition of forskolin-stimulated cAMP accumulation in NIH-3T3 cells stably expressing human MT<sub>1</sub> (EC<sub>50</sub> = 0.74 nM) or expressing human MT<sub>2</sub> (EC<sub>50</sub> = 0.1 nM) receptors. Tasimelton is a circadian regulator.

**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>15</sub>H<sub>19</sub>NO<sub>2</sub>

Batch Molecular Weight: 245.32

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**References:**

**Lavedan *et al*** (2015) Tasimelton: a selective and unique receptor binding profile. *Neuropharmacology* **91** 142. PMID: 25534555.

**Vachharajani *et al*** (2003) Preclinical pharmacokinetics and metabolism of BMS-214778, a novel melatonin receptor agonist. *J.Pharm.Sci.* **92** 760. PMID: 12661062.

**Storage:** Store at -20°C

**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.

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