

**Product Name:** SR 10067

**Catalog No.:** 6038

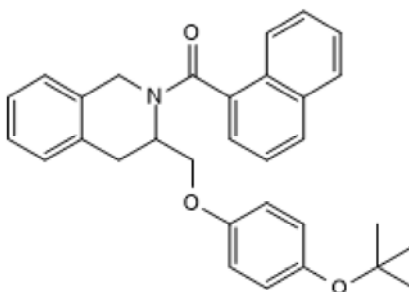
**Batch No.:** 1

CAS Number: 1380548-02-6

IUPAC Name: [3-[[4-(1,1-Dimethylethoxy)phenoxy]methyl]-3,4-dihydro-2(1*H*)-isoquinolinyl]-1-naphthalenylmethanone

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>31</sub>H<sub>31</sub>NO<sub>3</sub>·¼H<sub>2</sub>O  
**Batch Molecular Weight:** 470.08  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 5 mM with gentle warming  
 ethanol to 5 mM with gentle warming  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.39 (75% Petrol ether/EtOAc)  
**HPLC:** Shows 99.0% purity  
<sup>1</sup>H NMR: Consistent with structure  
 Mass Spectrum: Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	79.2	6.75	2.98
Found	79.41	6.71	2.95

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

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**Description:**

SR 10067 is a selective Rev-Erba/β agonist (IC<sub>50</sub> values are 160 and 170 nM for Rev-Erbβ and Rev-Erba respectively). Exhibits no significant activity against a wide range of nuclear receptors, other receptors, ion channels and transporters at 20 μM. Increases wakefulness, reduces REM and slow wave sleep in vivo. Also reduces anxiety-like behavior in marble-burying assay. Cell permeable and brain penetrant.

**Physical and Chemical Properties:**

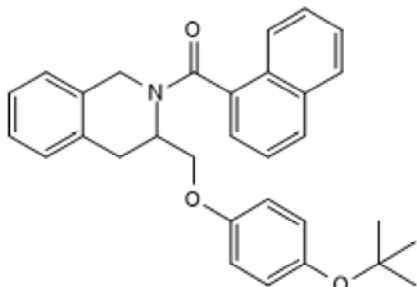
Batch Molecular Formula: C<sub>31</sub>H<sub>31</sub>NO<sub>3</sub>·¼H<sub>2</sub>O

Batch Molecular Weight: 470.08

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 5 mM with gentle warming  
ethanol to 5 mM with gentle warming

**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:**

**Thevis et al** (2016) Emerging drugs affecting skeletal muscle function and mitochondrial biogenesis - Potential implications for sports drug testing programs. *Rapid Commun. Mass Spectrom* **30** 635. PMID: 26842585.

**Banerjee et al** (2014) Pharmacological targeting of the mammalian clock regulates sleep architecture and emotional behaviour. *Nat. Commun.* **23** 5759. PMID: 25536025.

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