

Product Name: SR 10067

Catalog No.: 6038

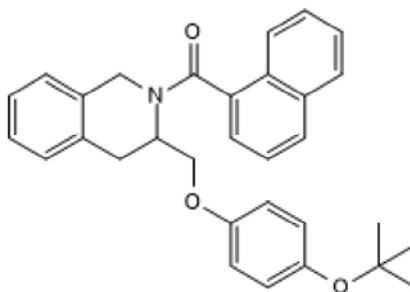
Batch No.: 1

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: C₃₁H₃₁NO₃·¼H₂O
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_f = 0.39 (75% Petrol ether/EtOAc)
HPLC: Shows 99.1% purity
¹H 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:

Selective Rev-Erba/β agonist (IC₅₀ 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:

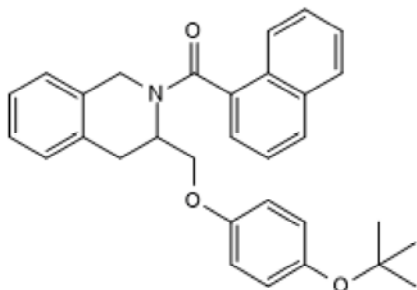
Batch Molecular Formula: C₃₁H₃₁NO₃·¼H₂O

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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