

**Product Name:** WS 12

**Catalog No.:** 3040

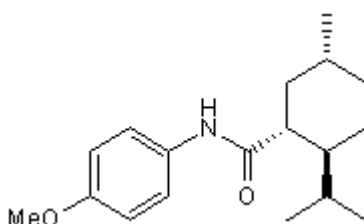
**Batch No.:** 1

CAS Number: 68489-09-8

IUPAC Name: (1*R*,2*S*,5*R*)-*N*-(4-Methoxyphenyl)-5-methyl-2-(1-methylethyl)cyclohexanecarboxamide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>18</sub>H<sub>27</sub>NO<sub>2</sub>  
**Batch Molecular Weight:** 289.41  
**Physical Appearance:** White fluffy solid  
**Solubility:** ethanol to 75 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.88 (Ethyl acetate:Petroleum ether [1:1])  
**HPLC:** Shows 100% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Optical Rotation:** [α]<sub>D</sub> = -50.4 (Concentration = 0.25, Solvent = Ethanol)  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	74.7	9.4	4.84
Found	74.85	9.53	4.97

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**Description:**

Potent TRPM8 agonist that acts as a cooling agent ( $EC_{50}$  = 193 nM).

**Physical and Chemical Properties:**

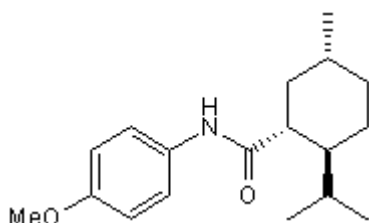
Batch Molecular Formula:  $C_{18}H_{27}NO_2$

Batch Molecular Weight: 289.41

Physical Appearance: White fluffy solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

ethanol to 75 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:**

**Beck *et al* (2007)** Prospects for prostate cancer imaging and therapy using high-affinity TRPM8 activators. *Cell Calcium* **41** 285. PMID: 16949669.

**Bodding *et al* (2007)** Characterisation of TRPM8 as a pharmacophore receptor. *Cell Calcium* **42** 618. PMID: 17517434.

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