

Certificate of Analysis

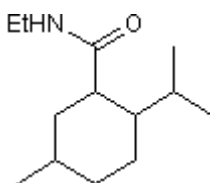
www.tocris.com

Product Name: WS 3
CAS Number: 39711-79-0
IUPAC Name: *N*-Ethyl-5-methyl-2-(1-methylethyl)cyclohexanecarboxamide

Catalog No.: 2927 **Batch No.:** 1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃H₂₅NO
Batch Molecular Weight: 211.34
Physical Appearance: White crystalline solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 97 - 98°C
HPLC: Shows >99.6% purity
¹H NMR: Consistent with structure
 Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	73.88	11.92	6.62
Found	74.33	12.09	6.71

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

Product Name: WS 3

Catalog No.: 2927

Batch No.: 1

CAS Number: 39711-79-0

IUPAC Name: *N*-Ethyl-5-methyl-2-(1-methylethyl)cyclohexanecarboxamide

Description:

Cooling agent that is an agonist at TRPM8 receptors ($EC_{50} = 3.7 \mu\text{M}$).

Physical and Chemical Properties:

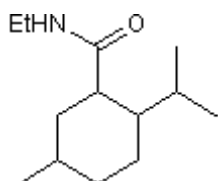
Batch Molecular Formula: $C_{13}H_{25}NO$

Batch Molecular Weight: 211.34

Physical Appearance: White crystalline solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

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:

Behrendt et al (2004) Characterization of the mouse cold-menthol receptor TRPM8 and vanilloid receptor type-1 VR1 using a fluorometric imaging plate reader (FLIPR) assay. *Br.J.Pharmacol.* **141** 737. PMID: 14757700.

Bodding (2007) TRP proteins and cancer. *Cell Signal.* **19** 617. PMID: 17029734.

Rovner (2007) Better than mint. *C&EN* **85** 95.

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956