

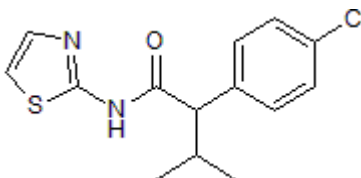
Certificate of Analysis

Product Name: 4-CMTB
CAS Number: 300851-67-6
IUPAC Name: 4-chloro- α -(1-methylethyl)-*N*-2-thiazolylbenzeneacetamide

Catalog No.: 4642 **Batch No.:** 1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₁₅ClN₂O_S· $\frac{1}{4}$ H₂O
Batch Molecular Weight: 299.3
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 20 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	56.18	5.22	9.36
Found	56.22	5.09	9.1

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Description:

Free fatty acid receptor FFA2 agonist ($pEC_{50} = 6.38$) and positive allosteric modulator. Binds at a site distinct from the orthosteric site; modulates the activity of short-chain fatty acids at FFA2 via the FFA2 second extracellular loop (ECL2).

Physical and Chemical Properties:

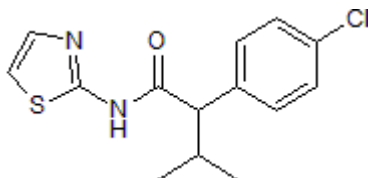
Batch Molecular Formula: $C_{14}H_{15}ClN_2O_S \cdot \frac{1}{4}H_2O$

Batch Molecular Weight: 299.3

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 20 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:

Smith et al (2011) Extracellular loop 2 of the free fatty acid receptor 2 mediates allosterism of a phenylacetamide ago-allosteric modulator. *Mol.Pharmacol.* **80** 163. PMID: 21498659.

Milligan et al (2009) Agonism and allosterism: the pharmacology of the free fatty acid receptors FFA2 and FFA3. *Br.J.Pharmacol.* **158** 146. PMID: 19719777.

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