

**Product Name:** AC 265347

**Catalog No.:** 6165

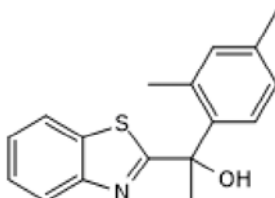
**Batch No.:** 1

CAS Number: 1253901-26-6

IUPAC Name:  $\alpha$ -(2,4-Dimethylphenyl)- $\alpha$ -methyl-2-benzothiazolemethanol

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>17</sub>H<sub>17</sub>NOS  
**Batch Molecular Weight:** 283.39  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 100 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.14 (25% Ethyl acetate:Petroleum ether )  
**HPLC:** Shows 99.9% purity  
<sup>1</sup>H NMR: Consistent with structure  
 Mass Spectrum: Consistent with structure  
 Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	72.05	6.05	4.94
Found	71.84	6.11	4.85

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

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**1**

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IUPAC Name:  $\alpha$ -(2,4-Dimethylphenyl)- $\alpha$ -methyl-2-benzothiazolemethanol

**Description:**

AC 265347 is a CaSR biased allosteric modulator (pEC<sub>50</sub> = 7.8-8.1). Calcimimetic. Displays ability to bias signalling towards the accumulation of pERK1/2 and IP<sub>1</sub>. Reduces parathyroid hormone (PTH) levels in rat serum without inducing the release of calcitonin. Exhibits no significant activation of human GABA<sub>B</sub> or type I PTH receptors. Orally active.

**Physical and Chemical Properties:**

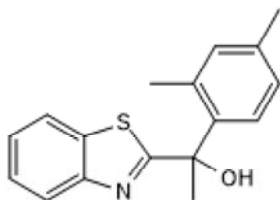
Batch Molecular Formula: C<sub>17</sub>H<sub>17</sub>NOS

Batch Molecular Weight: 283.39

Physical Appearance: White solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**



**References:**

**Leach et al** (2016) Towards a structural understanding of allosteric drugs at the human calcium-sensing receptor. *Cell.Res.* **26** 574. PMID: 27002221.

**Cook et al** (2015) Biased allosteric modulation at the CaS receptor engendered by structurally diverse calcimimetics. *Br.J.Pharmacol.* **172** 185. PMID: 25220431.

**Ma et al** (2011) Characterization of highly efficacious allosteric agonists of the human calcium-sensing receptor. *J.Pharmacol.Exp.Ther.* **337** 275. PMID: 21239511.

**Storage:** Store at +4°C

**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.

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