

# Certificate of Analysis

**Product Name:** Azoramide

**Catalog No.:** 5796

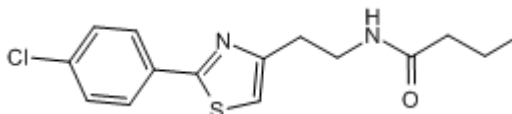
**Batch No.:** 1

CAS Number: 932986-18-0

IUPAC Name: *N*-[2-[2-(4-Chlorophenyl)-4-thiazolyl]ethyl]butanamide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>15</sub>H<sub>17</sub>ClN<sub>2</sub>OS  
**Batch Molecular Weight:** 308.83  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
ethanol to 100 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 99.7% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon Hydrogen Nitrogen		
Theoretical	58.34	5.55	9.07
Found	58.55	5.6	9

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

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**Description:**

Modulator of unfolded protein response (UPR). Protects cells from ER stress by improving ER protein folding and activating ER chaperone capacity. Also improves ER calcium retention. Improves liver ER function, glucose homeostasis and glucose-stimulated insulin secretion in mouse obesity models. Orally bioavailable.

**Physical and Chemical Properties:**

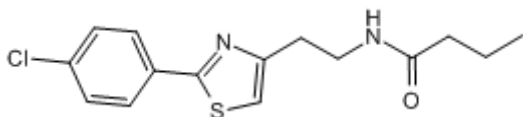
Batch Molecular Formula: C<sub>15</sub>H<sub>17</sub>ClN<sub>2</sub>OS

Batch Molecular Weight: 308.83

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**References:**

Fu *et al* (2015) Phenotypic assays identify azoramide as a small-molecule modulator of the unfolded protein response with antidiabetic activity. *Sci.Transl.Med.* **7** 292ra98. PMID: 26084805.

**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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