

## Certificate of Analysis

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**Product Name:** TH 257

**Catalog No.:** 6899

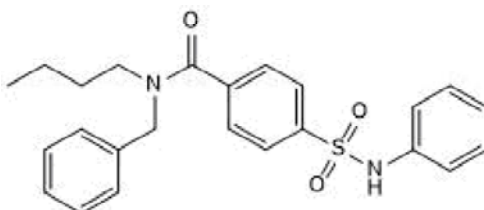
**Batch No.:** 1

CAS Number: 2244678-29-1

IUPAC Name: *N*-Butyl-4-[(phenylamino)sulfonyl]-*N*-(phenylmethyl)benzamide

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>24</sub>H<sub>26</sub>N<sub>2</sub>O<sub>3</sub>S  
**Batch Molecular Weight:** 422.54  
**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> = 0.26 (Ethyl acetate:Petroleum ether [1:1])  
**HPLC:** Shows 99.5% purity  
<sup>1</sup>H NMR: Consistent with structure  
 Mass Spectrum: Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	68.22	6.2	6.63
Found	68.1	6.17	6.7

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

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CAS Number: 2244678-29-1

IUPAC Name: *N*-Butyl-4-[(phenylamino)sulfonyl]-*N*-(phenylmethyl)benzamide

**Description:**

Potent and selective allosteric LIMK 1/2 inhibitor (IC<sub>50</sub> values are 84 and 39 nM, respectively). Inhibits cofilin phosphorylation in vitro. Exhibits no significant activity against the wider kinome.

**Physical and Chemical Properties:**

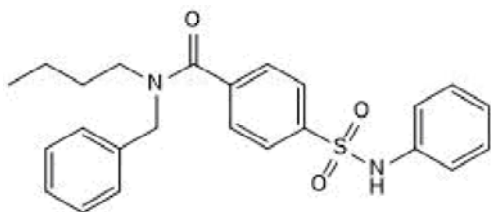
Batch Molecular Formula: C<sub>24</sub>H<sub>26</sub>N<sub>2</sub>O<sub>3</sub>S

Batch Molecular Weight: 422.54

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**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.

**Licensing Information:**

This probe is supplied in conjunction with the Structural Genomics Consortium. For further characterization details, please visit the TH 257 probe summary on the SGC website.

**References:**

**Manetti et al** (2018) Recent advances in the rational design and development of LIM kinase inhibitors are not enough to enter clinical trials. *Eur.J.Med.Chem.* **155** 445. PMID: 29908439.

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