

**Product Name:** LY 2087101

**Catalog No.:** 4141

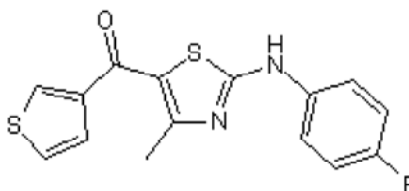
**Batch No.:** 2

CAS Number: 913186-74-0

IUPAC Name: [2-[(4-Fluorophenyl)amino]-4-methyl-5-thiazolyl]-3-thienylmethanone

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>15</sub>H<sub>11</sub>FN<sub>2</sub>OS<sub>2</sub>  
**Batch Molecular Weight:** 318.39  
**Physical Appearance:** Pale yellow solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 10 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.2 (Pentane/EtOAc 4:1)  
**HPLC:** Shows 99.2% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	56.59	3.48	8.8
Found	56.38	3.6	8.68

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

**Product Name:** LY 2087101

**Catalog No.:** 4141

**Batch No.:** 2

CAS Number: 913186-74-0

IUPAC Name: [2-[(4-Fluorophenyl)amino]-4-methyl-5-thiazolyl]-3-thienylmethanone

**Description:**

Allosteric potentiator of  $\alpha 7$ ,  $\alpha 4\beta 2$  and  $\alpha 4\beta 4$  nAChRs; displays selectivity against  $\alpha 3\beta 4$  nAChRs. Thought to potentiate agonist-evoked  $\alpha 7$  responses by binding within the nAChR transmembrane region.

**Physical and Chemical Properties:**

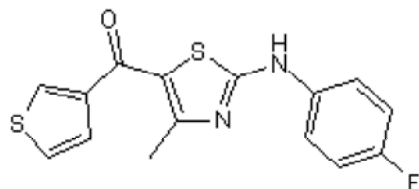
Batch Molecular Formula: C<sub>15</sub>H<sub>11</sub>FN<sub>2</sub>OS<sub>2</sub>

Batch Molecular Weight: 318.39

Physical Appearance: Pale yellow solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 10 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:**

**Young et al** (2008) Potentiation of  $\alpha 7$  nicotinic acetylcholine receptors via an allosteric transmembrane site. *Proc.Natl.Acad.Sci.* **105** 14686.

**Broad et al** (2006) Identification and pharmacological profile of a new class of selective nicotinic acetylcholine receptor potentiators. *J.Pharmacol.Exp.Ther.* **318** 1108. PMID: 16738207.

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