

Certificate of Analysis

Print Date: Jan 15th 2016

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Product Name: LY 2087101 Catalog No.: 4141 Batch No.: 1

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: $C_{15}H_{11}FN_2OS_2$

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:

s | S | H | S | F

2. ANALYTICAL DATA

TLC: $R_f = 0.2$ (Pentane/Ethyl Acetate 4:1)

HPLC: Shows 99.2% purity

¹H NMR: Consistent with structure Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 56.59 3.48 8.8 Found 56.45 3.43 8.93



Product Information

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Description:

Allosteric potentiator of α7, α4β2 and α4β4 nAChRs; displays selectivity against α3β4 nAChRs. Thought to potentiate agonistevoked a7 responses by binding within the nAChR transmembrane region.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₅H₁₁FN₂OS₂ 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:

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.

Young et al (2008) Potentiation of α7 nicotinic acetylcholine receptors via an allosteric transmembrane site. Proc.Natl.Acad.Sci. 105 14686.