



# **Certificate of Analysis**

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Product Name: LEI 401 Catalog No.: 7407 Batch No.: 1

CAS Number: 2393840-15-6

IUPAC Name: N-(Cyclopropylmethyl)-6-[(3S)-3-hydroxy-1-pyrrolidinyl]-2-[(3S)-3-phenyl-1-piperidinyl]-4-pyrimidinecarboxamide

#### 1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{24}H_{31}N_5O_2$ .Batch Molecular Weight:421.55Physical Appearance:White solid

Solubility: DMSO to 100 mM

ethanol to 50 mM

Storage: Store at -20°C

**Batch Molecular Structure:** 

#### 2. ANALYTICAL DATA

**HPLC:** Shows 99.1% purity

<sup>1</sup>H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 68.38 7.41 16.61 Found 68.17 7.51 16.66

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

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# **Product Information**

Print Date: Jun 21st 2021

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# **Description:**

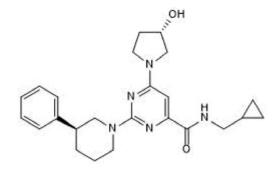
LEI 401 is a high affinity N-acylphosphatidylethanolamine phospholipase D (NAPE-PLD) inhibitor ( $K_{\rm i}=0.027$  and 0.18  $\mu M$  for human and mouse NAPE-PLD, respectively; IC $_{50}$  for human enzyme = 0.86  $\mu M$ ). LEI 401 exhibits no significant activity at cannabinoid receptors or other metabolic enzymes of the endocannabinoid system. The product reduces levels of N-acylethanolamines (NAE) in a neuroblastoma cell line in vitro. It also reduces anandamide levels in mouse brain in vivo and impairs fear extinction. LEI 701 is CNS penetrant and cell-permeable.

#### **Physical and Chemical Properties:**

Batch Molecular Formula:  $C_{24}H_{31}N_5O_2$ . Batch Molecular Weight: 421.55 Physical Appearance: White solid

**Minimum Purity:** ≥98%

### **Batch Molecular Structure:**



Storage: Store at -20°C

# Solubility & Usage Info:

DMSO to 100 mM ethanol to 50 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:**

Sold with kind permission of Professor van der Stelt

References:

Mock et al (2020) Discovery of a NAPE-PLD inhibitor that modulates emotional behavior in mice. Nat.Chem.Biol. 16 667. PMID: 32393901.

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