

**Certificate of Analysis** 

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Print Date: Jan 16th 2016

Product Name: VU 0409106 Catalog No.: 5322 Batch No.: 1

CAS Number: 1276617-62-9

IUPAC Name: 3-Fluoro-*N*-(4-methyl-2-thiazolyl)-5-(5-pyrimidinyloxy)benzamide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:  $C_{15}H_{11}FN_4O_2S$ 

**Batch Molecular Weight:** 330.34 **Physical Appearance:** White solid

Solubility: DMSO to 100 mM Storage: Store at +4°C

**Batch Molecular Structure:** 

## 2. ANALYTICAL DATA

**TLC:**  $R_f = 0.65$  (Dichloromethane:Methanol [95:5])

HPLC: Shows >99.8% purity

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

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 54.54 3.36 16.96 Found 54.58 3.32 16.94



# **Product Information**

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IUPAC Name: 3-Fluoro-*N*-(4-methyl-2-thiazolyl)-5-(5-pyrimidinyloxy)benzamide

## **Description:**

Potent and selective  ${\rm mGlu}_5$  negative allosteric modulator ( ${\rm IC}_{50}$  = 49 nM at human  ${\rm mGlu}_5$ ). Selective for  ${\rm mGlu}_5$  over a panel of GPCRs and ion channels. Exhibits no significant nonspecific binding in rat brain homogenates in vitro. Inhibits marble burying behavior in mice. Brain penetrant.

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

Batch Molecular Formula: C<sub>15</sub>H<sub>11</sub>FN<sub>4</sub>O<sub>2</sub>S

Batch Molecular Weight: 330.34 Physical Appearance: White solid

**Minimum Purity:** >98%

#### **Batch Molecular Structure:**

Storage: Store at +4°C

## Solubility & Usage Info:

DMSO 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.

### References:

**Felts** *et al* (2013) Discovery of VU0409106: A negative allosteric modulator of mGlu<sub>5</sub> with activity in a mouse model of anxiety. Bioorg.Med.Chem.Lett. **23** 5779. PMID: 24074843.