

Certificate of Analysis

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Product Name: VU 6001966

Catalog No.: 6928

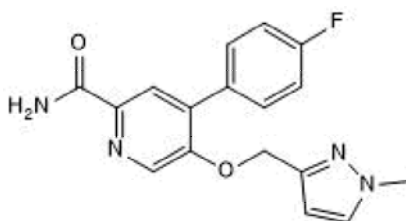
Batch No.: 1

CAS Number: 2009052-76-8

IUPAC Name: 4-(4-Fluorophenyl)-5-[(1-methyl-1*H*-pyrazol-3-yl)methoxy]-2-pyridinecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₅FN₄O₂
Batch Molecular Weight: 326.33
Physical Appearance: White solid
Solubility: DMSO to 100 mM
ethanol to 5 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	62.57	4.63	17.17
Found	62.38	4.64	17.24

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

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IUPAC Name: 4-(4-Fluorophenyl)-5-[(1-methyl-1H-pyrazol-3-yl)methoxy]-2-pyridinecarboxamide

Description:

VU 6001966 is a potent and selective mGlu₂ negative allosteric modulator (IC₅₀ = 78 nM). Exhibits > 350-fold selectivity for mGlu₂ over mGlu₃. Also exhibits selectivity over other mGluRs and a panel of GPCRs, ion channels and transporters. VU 6001966 induces antidepressant like effects in mouse models of chronic stress. CNS penetrant.

Physical and Chemical Properties:

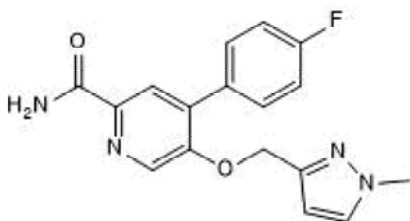
Batch Molecular Formula: C₁₇H₁₅FN₄O₂

Batch Molecular Weight: 326.33

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 5 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 under license from Vanderbilt University

References:

Joffe et al (2020) mGlu 2 and mGlu 3 negative allosteric modulators divergently enhance thalamocortical transmission and exert rapid antidepressant-like effects. *Neuron* **105** 46. PMID: 31735403.

Bollinger et al (2017) Design and synthesis of mGlu₂ NAMs with improved potency and CNS penetration based on a truncated picolinamide core. *ACS Med.Chem.Lett.* **8** 919. PMID: 28947937.

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