

**Product Name:** VU 6005649

**Catalog No.:** 6893

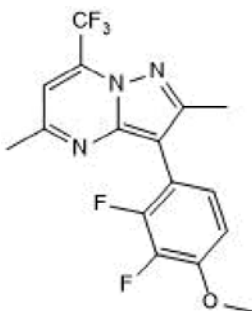
**Batch No.:** 1

CAS Number: 2137047-43-7

IUPAC Name: 3-(2,3-Difluoro-4-methoxyphenyl)-2,5-dimethyl-7-(trifluoromethyl)pyrazolo[1,5-a]pyrimidine

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>16</sub>H<sub>12</sub>F<sub>5</sub>N<sub>3</sub>O  
**Batch Molecular Weight:** 357.28  
**Physical Appearance:** Yellow solid  
**Solubility:** DMSO to 100 mM  
ethanol to 50 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.6% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	53.79	3.39	11.76
Found	53.82	3.36	11.67

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

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**Description:**

Positive allosteric modulator of mGlu<sub>7</sub> and mGlu<sub>8</sub> receptors (EC<sub>50</sub> = 0.65 μM and 2.6 μM for mGlu<sub>7</sub> and mGlu<sub>8</sub>, respectively). Displays >3.8 fold selectivity for mGlu<sub>7</sub> and mGlu<sub>8</sub> over other mGlu receptors (EC<sub>50</sub> >10 μM for mGlu<sub>1,2,3,4,5,6</sub>). Also NK<sub>1</sub> receptor antagonist (K<sub>i</sub> = 650 nM, IC<sub>50</sub> = 3.4 μM). Brain penetrant.

**Physical and Chemical Properties:**

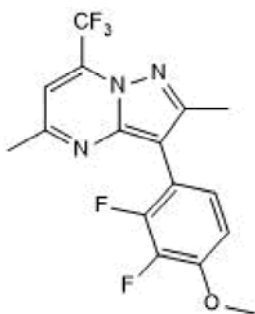
Batch Molecular Formula: C<sub>16</sub>H<sub>12</sub>F<sub>5</sub>N<sub>3</sub>O

Batch Molecular Weight: 357.28

Physical Appearance: Yellow 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.

**References:**

**Abe et al** (2017) Discovery of VU6005649, a CNS penetrant mGlu<sub>7/8</sub> receptor PAM derived from a series of pyrazolo[1,5-a]pyrimidines. ACS.Med.Chem.Lett. **8** 1110. PMID: 29057060.

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