

**Product Name:** TM N1324

**Catalog No.:** 6325

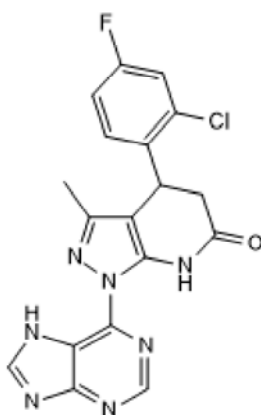
**Batch No.:** 1

CAS Number: 1144477-35-9

IUPAC Name: 4-(2-Chloro-4-fluorophenyl)-1,4,5,7-tetrahydro-3-methyl-1-(9H-purin-6-yl)-6H-pyrazolo[3,4-b]pyridin-6-one

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>18</sub>H<sub>13</sub>ClFN<sub>7</sub>O·¼H<sub>2</sub>O  
**Batch Molecular Weight:** 402.29  
**Physical Appearance:** Off White solid  
**Solubility:** DMSO to 10 mM with gentle warming  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.7% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	53.74	3.38	24.37
Found	53.55	3.28	23.97

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

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**Description:**

Potent and selective GPR39 agonist (IC<sub>50</sub> values are 280 and 9 nM in the absence and presence of Zn<sup>2+</sup>, respectively). Exhibits no significant activity against a panel of 165 other GPCRs. Inhibits the release of ghrelin and somatostatin from primary gastric mucosa cells in vitro. Cell permeable and orally bioavailable.

**Physical and Chemical Properties:**

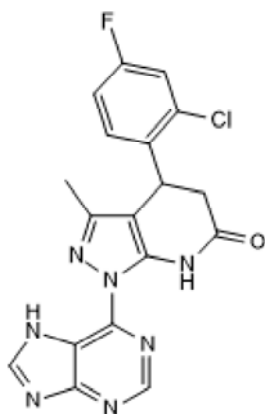
Batch Molecular Formula: C<sub>18</sub>H<sub>13</sub>ClFN<sub>7</sub>O.¼H<sub>2</sub>O

Batch Molecular Weight: 402.29

Physical Appearance: Off White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 10 mM with gentle warming

**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:**

Frimurer *et al* (2017) Model-based discovery of synthetic agonists for the Zn<sup>2+</sup>-sensing G-protein-coupled receptor 39 (GPR39) reveals novel biological functions. *J.Med.Chem.* **60** 886. PMID: 28045522.

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