Product Name: FTIDC  
Catalog No.: 5000  
Batch No.: 1

CAS Number: 873551-53-2

IUPAC Name: 4-[1-(2-Fluoro-3-pyridinyl)-5-methyl-1H-1,2,3-triazol-4-yl]-3,6-dihydro-N-methyl-N-(1-methylethyl)-1(2H)-pyridinecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( C_{18}H_{23}FN_{6}O \)

Batch Molecular Weight: 358.41

Physical Appearance: Pale cream solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

2. ANALYTICAL DATA

TLC: \( R_f \) = 0.65 (Ethyl acetate)

HPLC: Shows 99.7% purity

\(^1\)H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical: 60.32 6.47 23.45

Found: 60.33 6.48 23.6

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Product Name: FTIDC Catalo

CAS Number: 873551-53-2

IUPAC Name: 4-[1-(2-Fluoro-pyridin-3-yl)-5-methyl-1H-1,2,3-triazol-4-yl]-N-isopropyl-N-methyl-3,6-dihydropyridine-1(2H)-carboxamide

Description:
Potent and selective mGlu5 receptor negative allosteric modulator (IC_{50} values are 5.8 and 6200 nM for mGlu5 and mGlu3 respectively). Also acts as an mGlu1 receptor inverse agonist (IC_{50} = 7 nM) in the absence of ligand. Exhibits no effect at group II/III mGlu receptors. Inhibits L-glutamate-induced increases in intracellular calcium in mGlu5-expressing CHO cells. Inhibits nociceptive behavior, and exhibits anxiolytic and antipsychotic effects in vivo. Orally active.

Physical and Chemical Properties:
Batch Molecular Formula: C_{33}H_{35}FN_{2}O
Batch Molecular Weight: 358.41
Physical Appearance: Pale cream solid
Minimum Purity: >98%

Storage: Store at -20°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:
Satow et al (2008) Pharmacological effects of the metabotropic glutamate receptor 1 antagonist compared with those of the metabotropic glutamate receptor 5 antagonist and metabotropic glutamate receptor 2/3 agonist in rodents: detailed investigations with a selective allosteric metabotropic glutamate receptor 1 antagonist, FTIDC [4-[1-(2-fluoropyridin-3-yl)-5-methyl-1H-1,2,3-triazol-4-yl]-N-isopropyl-N-methyl-3,6-dihydropyridine-1(2H)-carboxamide]. J.Pharmacol.Exp.Ther. 326 577. PMID: 18487514.

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