

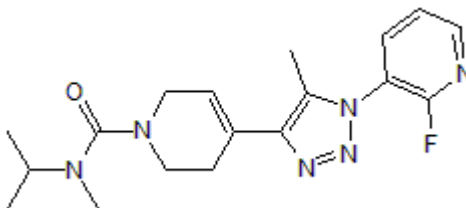
Certificate of Analysis

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Product Name: FTIDC **Catalog No.:** 5000 **Batch No.:** 1
CAS Number: 873551-53-2
IUPAC Name: 4-[1-(2-Fluoro-3-pyridinyl)-5-methyl-1*H*-1,2,3-triazol-4-yl]-3,6-dihydro-*N*-methyl-*N*-(1-methylethyl)-1(2*H*)-pyridinecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₂₃FN₆O
Batch Molecular Weight: 358.41
Physical Appearance: Pale cream solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.65 (Ethyl acetate)
HPLC: Shows 99.7% purity
¹H 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

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

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Description:

Potent and selective mGlu₁ receptor negative allosteric modulator (IC₅₀ values are 5.8 and 6200 nM for mGlu₁ and mGlu₅ respectively). Also acts as an mGlu₁ receptor inverse agonist (IC₅₀ = 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 mGlu₁-expressing CHO cells. Inhibits nociceptive behavior, and exhibits anxiolytic and antipsychotic effects in vivo. Orally active.

Physical and Chemical Properties:

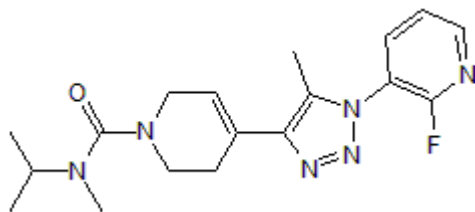
Batch Molecular Formula: C₁₈H₂₃FN₆O

Batch Molecular Weight: 358.41

Physical Appearance: Pale cream solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Suzuki et al (2007) Pharmacological characterization of a new, orally active and potent allosteric metabotropic glutamate receptor 1 antagonist, 4-[1-(2-fluoropyridin-3-yl)-5-methyl-1*H*-1,2,3-triazol-4-yl]-*N*-isopropyl-*N*-methyl-3,6-dihydropyridine-1(2*H*)-carboxamide (FTIDC). *J.Pharmacol.Exp.Ther.* **321** 1144. PMID: 17360958.

Ito et al (2008) Discovery and biological profile of 4-(1-aryltriazol-4-yl)-tetrahydropyridines as an orally active new class of metabotropic glutamate receptor 1 antagonist. *Bioorg.Med.Chem.* **16** 9817. PMID: 18849168.

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-fluoropyridine-3-yl)-5-methyl-1*H*-1,2,3-triazol-4-yl]-*N*-isopropyl-*N*-methyl-3,6-dihydropyridine-1(2*H*)-carboxamide]. *J.Pharmacol.Exp.Ther.* **326** 577. PMID: 18487514.

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.

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