

Certificate of Analysis

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Product Name: ADX 10059 hydrochloride

Catalog No.: 4416

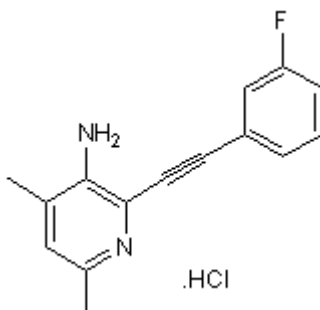
Batch No.: 1

CAS Number: 757949-98-7

IUPAC Name: 2-[(3-Fluorophenyl)ethynyl]-4,6-dimethyl-3-pyridinamine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₃FN₂·HCl
Batch Molecular Weight: 276.74
Physical Appearance: Yellow solid
Solubility: water to 25 mM
DMSO to 100 mM
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.17 (Ethyl acetate:Petroleum ether [3:7])
HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.1	5.1	10.12
Found	64.84	5.02	10.02

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

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Description:

Reported to be a negative allosteric modulator at the mGlu₅ receptor. Analog of MPEP (Cat. No. 1212).

Physical and Chemical Properties:

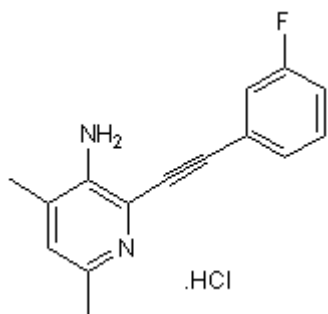
Batch Molecular Formula: C₁₅H₁₃FN₂.HCl

Batch Molecular Weight: 276.74

Physical Appearance: Yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 25 mM
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:

Keyword et al (2009) A proof-of-concept study evaluating the effect of ADX10059, a metabotropic glutamate receptor-5 negative allosteric modulator, on acid exposure and symptoms in gastro-oesophageal reflux disease. *Gut*. **58** 1192. PMID: 19460767.

Marin and Goadsby (2010) Glutamatergic fine tuning with ADX-10059: a novel therapeutic approach for migraine? *Expert Opin.Invest.Drugs* **19** 555. PMID: 20218930.

Weiss et al (2011) 6-Aryl-3-pyrrolidinylpyridines as mGlu₅ receptor negative allosteric modulators. *Bioorg.Med.Chem.Lett.* **21** 4891. PMID: 21757343.

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