

Certificate of Analysis

Product Name: MMPIP hydrochloride

Catalog No.: 2963

Batch No.: 4

CAS Number: 479077-02-6

IUPAC Name: 6-(4-Methoxyphenyl)-5-methyl-3-(4-pyridinyl)-isoxazolo[4,5-c]pyridin-4(5H)-one hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₁₅N₃O₃·HCl·H₂O

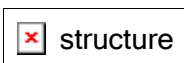
Batch Molecular Weight: 387.82

Physical Appearance: Yellow solid

Solubility: DMSO to 10 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.37 (Ethyl acetate)

HPLC: Shows 99.4% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.84	4.68	10.83
Found	58.91	4.5	10.7

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

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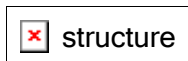
Description:

Potent allosteric mGlu₇-selective receptor antagonist. Inhibits agonist-induced intracellular calcium mobilization and cAMP accumulation (IC₅₀ values are 26 and 610 nM). Displays intrinsic activity; increases forskolin-induced cAMP accumulation in the absence of an agonist (IC₅₀ = 15 nM), indicating inverse agonist activity.

Physical and Chemical Properties:Batch Molecular Formula: C₁₉H₁₅N₃O₃.HCl.H₂O

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Physical Appearance: Yellow solid

Minimum Purity: >98%**Batch Molecular Structure:****Storage:** Desiccate at RT**Solubility & Usage Info:**

DMSO to 10 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:

Suzuki et al (2007) In vitro pharmacological characterization of novel isoxazolopyridone derivatives as allosteric metabotropic glutamate receptor 7 antagonists. *J.Pharmacol.Exp.Ther.* **323** 147. PMID: 17609420.

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