

**Product Name:** MMPIP hydrochloride

**Catalog No.:** 2963

**Batch No.:** 4

CAS Number: 1215566-78-1

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:** C<sub>19</sub>H<sub>15</sub>N<sub>3</sub>O<sub>3</sub>.HCl.H<sub>2</sub>O

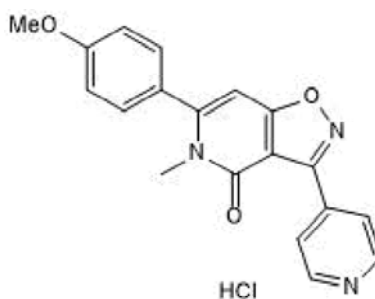
**Batch Molecular Weight:** 387.82

**Physical Appearance:** Yellow solid

**Solubility:** DMSO to 10 mM

**Storage:** Desiccate at RT

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.37 (Ethyl acetate)

**HPLC:** Shows 99.4% purity

**<sup>1</sup>H 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

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**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel: +1 612 379 2956

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**Description:**

MMPIP hydrochloride is a potent allosteric mGlu<sub>7</sub>-selective receptor antagonist. Inhibits agonist-induced intracellular calcium mobilization and cAMP accumulation (IC<sub>50</sub> values are 26 and 610 nM). Displays intrinsic activity; increases forskolin-induced cAMP accumulation in the absence of an agonist (IC<sub>50</sub> = 15 nM), indicating inverse agonist activity.

**Physical and Chemical Properties:**

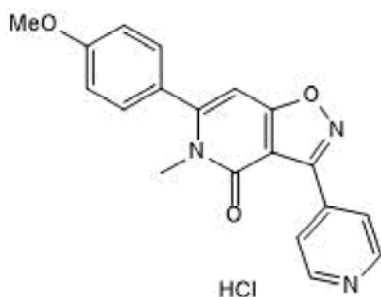
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Batch Molecular Weight: 387.82

Physical Appearance: Yellow solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Desiccate at RT

**Solubility & Usage Info:**

DMSO to 10 mM

When purchased as a 1mg unit, this product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

**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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