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Print Date: Jan 13th 2016

Certificate of Analysis

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Product Name: **MRS 2219** **Catalog No.: 1203** **Batch No.: 2**

CAS Number: 14141-47-0

IUPAC Name: 1,5-Dihydro-3-hydroxy-8-methyl[1,3,2]dioxaphosphepino[5,6-*c*]pyridin-9-ol-3-oxide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_8H_{10}NO_5P.¼H_2O$

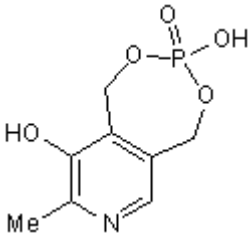
Batch Molecular Weight: 235.64

Physical Appearance: White solid

Solubility: 1eq. NaOH to 100 mM
phosphate buffered saline to 5 mM

Storage: Desiccate at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.3 (Isopropanol:Ammonia solution:Water [12:3:1])

Melting Point: Greater than 200°C(dec)

HPLC: Shows 100% purity

^{1}H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	40.78	4.49	5.94
Found	40.5	4.58	5.67

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Description:

A selective potentiator of ATP-evoked responses at rat $P2X_1$ receptors (EC_{50} = 5.9 µM).

Physical and Chemical Properties:

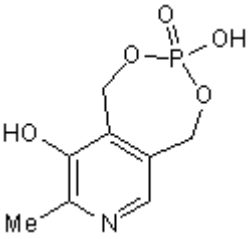
Batch Molecular Formula: $C_8H_{10}NO_5P.¼H_2O$

Batch Molecular Weight: 235.64

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

1eq. NaOH to 100 mM
phosphate buffered saline to 5 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:

Jacobson *et al* (1998) A pyridoxine cyclic phosphate and its 6-azoaryl derivative selectively potentiate and antagonise activation of P_{2X1} receptors. J.Med.Chem. ***41*** 2201. PMID: 9632352.