

Product Name: MRS 2211

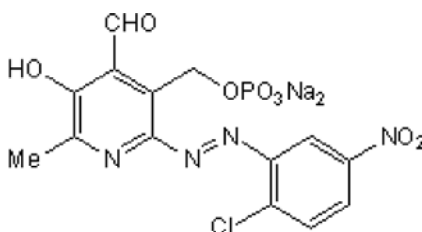
Catalog No.: 2402

Batch No.: 2

IUPAC Name: 2-[(2-Chloro-5-nitrophenyl)azo]-5-hydroxy-6-methyl-3-[(phosphonoxy)methyl]-4-pyridinecarboxaldehyde disodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₁₀N₄O₈Na₂PO₃Cl.0.75NaCl.1.3NaOH.3H₂O
Batch Molecular Weight: 624.536
Physical Appearance: Red solid
Solubility: water to 70 mM
Storage: Desiccate at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows >97.9% purity
¹H NMR: Consistent with structure
¹³C NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen	Chlorine	Sodium	Phosphorus
Theoretical	26.92		8.97	9.93	14.91	4.96
Found	27.15		8.86	9.83	15.28	5.23

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

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Description:

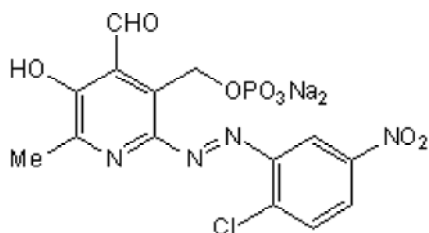
Competitive P2Y₁₃ receptor antagonist (pIC₅₀ = 5.97) that displays > 20-fold selectivity over P2Y₁ and P2Y₁₂ receptors.

Physical and Chemical Properties:

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C₁₄H₁₀N₄O₈Na₂Cl.0.75NaCl.1.3NaOH.3H₂O
Batch Molecular Weight: 624.536
Physical Appearance: Red solid

Minimum Purity: >96%

Batch Molecular Structure:



Storage: Desiccate at -20°C

Solubility & Usage Info:

water to 70 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:

Kugelgen (2006) Pharmacological profiles of cloned mammalian P2Y-receptor subtypes. *Pharmacol.Ther.* **110** 415. PMID: 16257449.

Kim et al (2005) Synthesis of pyridoxal phosphate derivatives with antagonist activity at the P2Y₁₃ receptor. *Biochem.Pharmacol.* **70** 266. PMID: 15913566.

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