

Certificate of Analysis

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Product Name: MRS 4062 triethylammonium salt

Catalog No.: 4261

Batch No.: 3

CAS Number: 1309871-50-8

IUPAC Name: N⁴-Phenylpropoxycytidine-5'-O-triphosphate tetra(triethylammonium) salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₂₆N₃O₁₅P₃.4(C₂H₅)₃N

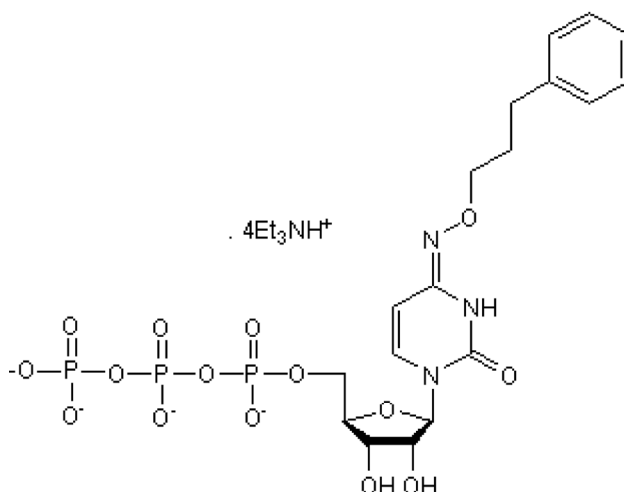
Batch Molecular Weight: 1022.09

Physical Appearance: liquid

Solubility: Soluble in water (supplied pre-dissolved at a concentration of 10mM)

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.2% purity

Mass Spectrum: Consistent with structure

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

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Description:

MRS 4062 triethylammonium salt is a selective P2Y₄ receptor agonist (EC₅₀ values are 23, 640, and 740 nM for hP2Y₄, hP2Y₂ and hP2Y₆ respectively).

Physical and Chemical Properties:

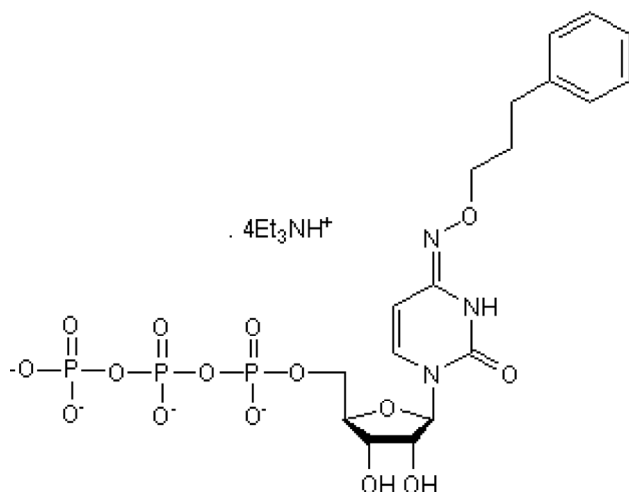
Batch Molecular Formula: C₁₈H₂₆N₃O₁₅P₃·4(C₂H₅)₃N

Batch Molecular Weight: 1022.09

Physical Appearance: liquid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

Soluble in water (supplied pre-dissolved at a concentration of 10mM)

This product is supplied as an aqueous solution in a small volume of liquid (~0.1ml). The product may therefore 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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Maruoka *et al* (2011) Pyrimidine nucleotides with 4-alkoxyimino and terminal tetraphosphate δ-ester modifications as selective agonists of the P2Y₄ receptor. *J.Med.Chem.* **54** 4018. PMID: 21528910.

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