

**Product Name:** MRS 2957 triethylammonium salt

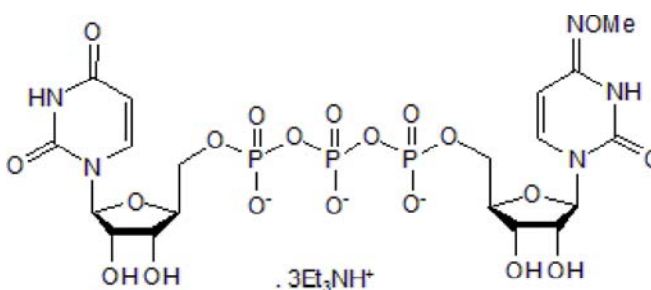
**Catalog No.:** 4260

**Batch No.:** 1

**IUPAC Name:** P<sup>1</sup>-[5'(N<sup>4</sup>-Methoxycytidyl)]-P<sup>3</sup>-(5'-uridylyl)-triphosphate tri(triethylammonium) salt

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>19</sub>H<sub>28</sub>N<sub>5</sub>O<sub>20</sub>P<sub>3</sub>.3(C<sub>2</sub>H<sub>5</sub>)<sub>3</sub>N  
**Batch Molecular Weight:** 1042.94  
**Physical Appearance:** Colourless 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 99.9% purity  
**Mass Spectrum:** Consistent with structure

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

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**Description:**

Potent P2Y<sub>6</sub> agonist (EC<sub>50</sub> = 12 nM). Displays 14- and 66-fold selectivity against P2Y<sub>2</sub> and P2Y<sub>4</sub> receptors respectively.

**Physical and Chemical Properties:**

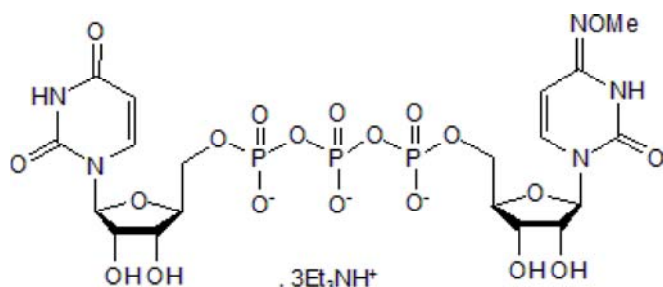
Batch Molecular Formula: C<sub>19</sub>H<sub>28</sub>N<sub>5</sub>O<sub>20</sub>P<sub>3</sub>.3(C<sub>2</sub>H<sub>5</sub>)<sub>3</sub>N

Batch Molecular Weight: 1042.94

Physical Appearance: Colourless liquid

**Minimum Purity:** ≥99%

**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. 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:**

**Maruoka et al** (2010) Pyrimidine ribonucleotides with enhanced selectivity as P2Y<sub>6</sub> receptor agonists: novel 4-alkoxyimino, (S)-methanocarba, and 5'-triphosphate γ-ester modifications. *J.Med.Chem.* **53** 4488. PMID: 20446735.

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