

**Product Name:** MRS 2365

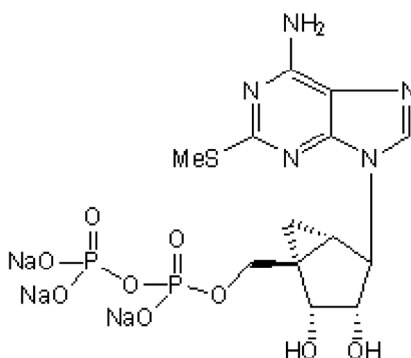
**Catalog No.:** 2157

**Batch No.:** 7

**IUPAC Name:** [[[1*R*,2*R*,3*S*,4*R*,5*S*)-4-[6-Amino-2-(methylthio)-9*H*-purin-9-yl]-2,3-dihydroxybicyclo[3.1.0]hex-1-yl]methyl] diphosphoric acid mono ester trisodium salt

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>13</sub>H<sub>16</sub>N<sub>5</sub>O<sub>9</sub>P<sub>2</sub>SNa<sub>3</sub>  
**Batch Molecular Weight:** 549.28  
**Physical Appearance:** solution  
**Solubility:** Soluble in water (supplied pre-dissolved at a concentration of 10mM)  
**Storage:** Store at -80°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.8% 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 2365 is a highly potent, selective P2Y<sub>1</sub> receptor agonist (EC<sub>50</sub> = 0.4 nM). Displays no activity at P2Y<sub>12</sub> receptors and only very low agonist activity at P2Y<sub>13</sub> receptors (at concentrations up to 1 μM). Increases the upregulation of NTPDase1 by ATPγS.

**Physical and Chemical Properties:**

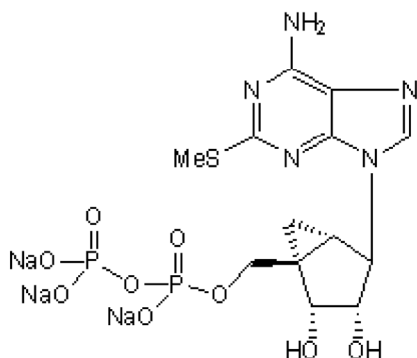
Batch Molecular Formula: C<sub>13</sub>H<sub>16</sub>N<sub>5</sub>O<sub>9</sub>P<sub>2</sub>SN<sub>3</sub>

Batch Molecular Weight: 549.28

Physical Appearance: solution

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at -80°C

**Solubility & Usage Info:**

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

This compound is supplied in aqueous solution at a concentration of 10mM.

**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.

**Licensing Information:**

Sold under license from the NIH, US Patent 10/169975

**References:**

**Lu *et al* (2007)** Stimulation of the P2Y<sub>1</sub> receptor up-regulates nucleoside-triphosphate diphosphohydrolase-1 in human retinal pigment epithelial cells. *J.Pharmacol.Exp.Ther.* **323** 157. PMID: 17626796.

**Chhatriwala *et al* (2004)** Induction of novel agonist selectivity for the ADP-activated P2Y<sub>1</sub> receptor versus the ADP-activated P2Y<sub>12</sub> and P2Y<sub>13</sub> receptors by conformational constraint of an ADP analog. *J.Pharmacol.Exp.Ther.* **311** 1038. PMID: 15345752.

**Ravi *et al* (2002)** Adenine nucleotide analogues locked in a northern methanocarpa conformation: enhanced stability and potency as P2Y<sub>1</sub> receptor agonists. *J.Med.Chem.* **45** 2090. PMID: 11985476.

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