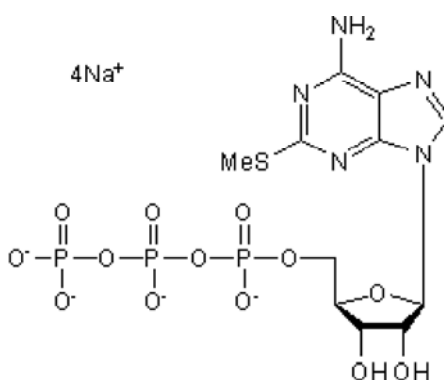


Product Name: 2-Methylthioadenosine triphosphate tetrasodium salt **Catalog No.:** 1062 **Batch No.:** 19
CAS Number: 100020-57-3
IUPAC Name: 2-Methylthioadenosine-5'-triphosphate tetrasodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₁H₁₄N₅Na₄O₁₃P₃S
Batch Molecular Weight: 641.2
Physical Appearance: Colourless solution
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 99.5% purity
Mass Spectrum: Consistent with structure

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

Product Name: 2-Methylthioadenosine triphosphate tetrasodium salt **Catalog No.:** 1062 **Batch No.:** 19
CAS Number: 100020-57-3
IUPAC Name: 2-Methylthioadenosine-5'-triphosphate tetrasodium salt

Description:

P2 purinoceptor agonist.

Physical and Chemical Properties:

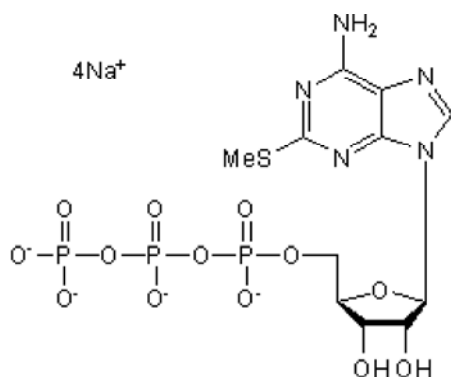
Batch Molecular Formula: C₁₁H₁₄N₅Na₄O₁₃P₃S

Batch Molecular Weight: 641.2

Physical Appearance: Colourless solution

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 dissolved in water 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. 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:

Khakh et al (2001) International Union of Pharmacology. XXIV. Current status of the nomenclature and properties of P2X receptors and their subunits. *Pharmacol.Rev.* **53** 107. PMID: 11171941.

McMurray et al (1998) Purinoceptor subtypes mediating contraction and relaxation of marmoset urinary bladder smooth muscle. *Br.J.Pharmacol.* **123** 1579. PMID: 9605564.

Burnstock et al (1983) Studies on the stereoselectivity of the P₂-purinoreceptor. *Br.J.Pharmacol.* **79** 907. PMID: 6317121.

Cusack et al (1982) Specific but non-competitive inhibition by 2-alkylthioanalogues of adenosine 5'-monophosphate and adenosine 5'-triphosphate of human platelet aggregation induced by adenosine 5'-diphosphate. *Br.J.Pharmacol.* **75** 397. PMID: 7186826.

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