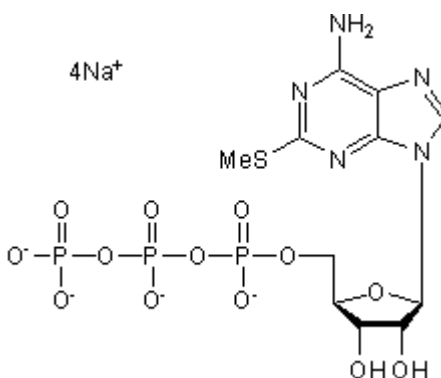


Product Name: 2-Methylthioadenosine triphosphate tetrasodium salt **Catalog No.:** 1062 **Batch No.:** 13
CAS Number: 100020-57-3
IUPAC Name: 2-Methylthioadenosine-5'-triphosphate tetrasodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{11}H_{14}N_5Na_4O_{13}P_3S \cdot 5\frac{1}{2}H_2O$
Batch Molecular Weight: 740.28
Physical Appearance: White solid
Solubility: water to 100 mM
Storage: Desiccate at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.3% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	17.85	3.4	9.46
Found	17.83	3.42	9.53

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Description:

P2 purinoceptor agonist.

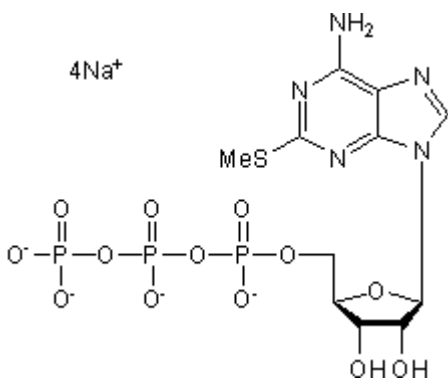
Physical and Chemical Properties:

Batch Molecular Formula: C₁₁H₁₄N₅Na₄O₁₃S₃·5½H₂O

Batch Molecular Weight: 740.28

Physical Appearance: White solid

Batch Molecular Structure:



Storage: Desiccate at -20°C

Solubility & Usage Info:

water to 100 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:

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.

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

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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.

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