TOCRIS b i o s c i e n c e

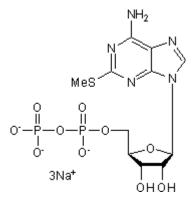
Certificate of Analysis

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Product Name:2-Methylthioadenosine diphosphate trisodium saltCatalog No.: 1624Batch No.: 7CAS Number:475193-31-8IUPAC Name:2-(Methylthio)adenosine-5'-(trihydrogen diphosphate) trisodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage: Batch Molecular Structure: C₁₁H₁₄N₅Na₃O₁₀P₂S 539.24 Colourless solution Soluble in water (supplied pre-dissolved at a concentration of 10mM) Store at -20°C



2. ANALYTICAL DATA

HPLC: Mass Spectrum: Shows 99.5% purity Consistent with structure

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



С

Batch No.: 7

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Product Name: 2-Methylthioadenosine diphosphate trisodium salt Catalog No.: 1624 CAS Number: 475193-31-8

IUPAC Name:

2-(Methylthio)adenosine-5'-(trihydrogen diphosphate) trisodium salt

Description:

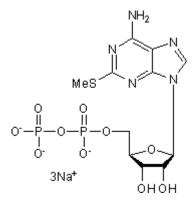
Potent purinergic agonist displaying selectivity for P2Y1, P2Y12 and P2Y₁₃ receptors (pEC₅₀ = 8.29 and 9.05 for P2Y₁ and $P2Y_{12}$, EC_{50} = 19 nM for $P2Y_{13}$). Induces aggregation of, and inhibits cAMP accumulation in, platelets in vitro.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₁H₁₄N₅Na₃O₁₀P₂S Batch Molecular Weight: 539.24 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:

Macfarlane et al (1983) 2-Methylthioadenosine [β -32P] diphosphate. An agonist and radioligand for the receptor that inhibits the accumulation of cyclic AMP in intact blood platelets. J.Clin.Invest. 71 420. PMID: 6298277.

Sak and Webb (2002) A retrospective of recombinant P2Y receptor subtypes and their pharmacology. Arch.Biochem.Biophys. 397 131. PMID: 11747319.

Zhang et al (2002) P2Y₁₃: identification and characterization of a novel Gαi-coupled ADP receptor from human and mouse. J.Pharmacol.Exp.Ther. 301 705. PMID: 11961076.

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