

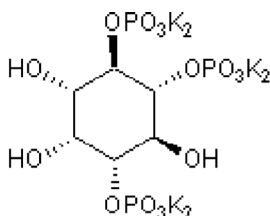
Certificate of Analysis

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Product Name: D-*myo*-Inositol 1,4,5-trisphosphate, hexapotassium salt **Catalog No.:** 1482 **Batch No.:** 10
CAS Number: 103476-24-0

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₆H₉O₁₅P₃.K₆
Batch Molecular Weight: 648.64
Physical Appearance: Off-white lyophilised solid
Solubility: Soluble in water
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.0% purity
¹H NMR: Consistent with structure

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

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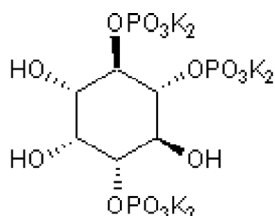
Description:

D-*myo*-Inositol 1,4,5-trisphosphate, hexapotassium salt is an important second messenger involved in Ca²⁺ mobilization from intracellular stores (EC₅₀ = 0.1 μM). Formed from the enzymatic hydrolysis of phosphatidyl inositol-4,5-bisphosphate.

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Solubility & Usage Info:

Soluble in water
 CAUTION - This product is extremely hygroscopic and we recommend that it is desiccated upon arrival. This product is supplied in lyophilized form. It may appear as a solid, gel or film and 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. *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.

References:

Wilcox et al (1998) New developments in the molecular pharmacology of the *myo*-inositol 1,4,5-trisphosphate receptor. *TiPS* **19** 467. PMID: 9850611.

Murphy et al (1996) Enantiomers of *myo*-inositol-1,3,4-trisphosphate and *myo*-inositol-1,4,6-trisphosphate: stereospecific recognition by cerebellar and platelet *myo*-inositol-1,4,5-trisphosphate receptors. *Mol.Pharmacol.* **50** 1223. PMID: 8913354.

Joseph et al (1984) *myo*-Inositol 1,4,5-trisphosphate. *J.Biol.Chem.* **259** 3077. PMID: 6607924.

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