

Product Name: D-*myo*-Inositol 1,4,5-trisphosphate, hexapotassium salt

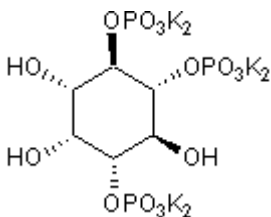
Catalog No.: 1482

Batch No.: 6

CAS Number: 103476-24-0

1. PHYSICAL AND CHEMICAL PROPERTIES

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



2. ANALYTICAL DATA

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

Tocris Bioscience is an R&D Systems company
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Description:

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.

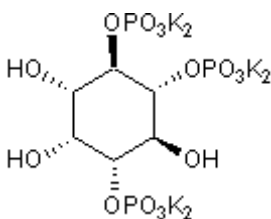
Physical and Chemical Properties:

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Storage: Store at -20°C

Solubility & Usage Info:

Soluble in water

CAUTION - This product is extremely hygroscopic and we recommend that it is desiccated upon arrival. Lyophilized solids can be hard to visualize therefore 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. 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:

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

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.

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

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