
Product Data Sheet

Product Name: D-myo-Inositol-2,5,6-triphosphate (sodium salt)

Cat. No.: GC43535

Chemical Properties

Cas. No.

SMILES O[C@@H]1[C@@H](O)[C@@H](OP([O-])(O)=O)[C@@H](O)[C@H](OP([O-])(O)=O)[C@H]1OP([O-])(O)=O.[Na+].[Na+].[Na+]

Formula $C_6H_{12}O_{15}P_3 \cdot 3Na$ M.Wt 486

Solubility PBS (pH 7.2): 50 mg/ml, Water: Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

Background

Ins(2,5,6)P₃ (sodium salt) is a member of the inositol phosphate (InsP) family of second messengers that play a critical role in the transmission of cellular signals. The most studied InsP, Ins(1,4,5)P₃ is a second messenger produced in cells by phospholipase C (PLC)-mediated hydrolysis of phosphatidylinositol-4,5-bisphosphate. Binding of the Ins(1,4,5)P₃ to its receptor on the endoplasmic reticulum results in opening of calcium channels and an increase in intracellular calcium. Ins(2,5,6)P₃ is a less potent inducer of calcium release from permeabilized rat basophilic leukemia cells with an EC₅₀ value of 110 μM compared to Ins(1,4,5)P₃, which has an EC₅₀ value of 0.17 μM.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA
