

inositol-1,3,4-trisphosphate 5/6-kinase

Cat. No. EXWM-2988

Lot. No. (See product label)

Introduction

Description

In humans, this enzyme, along with EC 2.7.1.127 (inositol-trisphosphate 3-kinase), EC 2.7.1.140 (inositol-tetrakisphosphate 5-kinase) and EC 2.7.1.158 (inositol pentakisphosphate 2-kinase) is involved in the production of inositol hexakisphosphate (InsP6). InsP6 is involved in many cellular processes, including mRNA export from the nucleus. Yeasts do not have this enzyme, so produce InsP6 from Ins(1,4,5)P3 by the actions of EC 2.7.1.151 (inositol-polyphosphate multikinase) and EC 2.7.1.158 (inositol-pentakisphosphate 2-kinase).

Synonyms

Ins(1,3,4)P3 5/6-kinase; inositol trisphosphate 5/6-kinase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 2.7.1.159

CAS No.

288307-53-9

Reaction

(1) $\text{ATP} + 1\text{D-myo-inositol } 1,3,4\text{-trisphosphate} = \text{ADP} + 1\text{D-myo-inositol } 1,3,4,5\text{-tetrakisphosphate}$; (2) $\text{ATP} + 1\text{D-myo-inositol } 1,3,4\text{-trisphosphate} = \text{ADP} + 1\text{D-myo-inositol } 1,3,4,6\text{-tetrakisphosphate}$

Notes

This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.