

inositol-polyphosphate multikinase

Cat. No. EXWM-2982

Lot. No. (See product label)

Introduction

Description

This enzyme also phosphorylates Ins(1,4,5)P₃ to Ins(1,3,4,5)P₄, Ins(1,3,4,5)P₄ to Ins(1,3,4,5,6)P₅, and Ins(1,3,4,5,6)P₄ to Ins(PP)P₄, isomer unknown. The enzyme from the plant *Arabidopsis thaliana* can also phosphorylate Ins(1,3,4,6)P₄ and Ins(1,2,3,4,6)P₅ at the D-5-position to produce 1,3,4,5,6-pentakisphosphate and inositol hexakisphosphate (InsP₆), respectively. Yeast produce InsP₆ from Ins(1,4,5)P₃ by the actions of this enzyme and EC 2.7.1.158, inositol-pentakisphosphate 2-kinase.

Synonyms

IpK2; IP₃/IP₄ 6-/3-kinase; IP₃/IP₄ dual-specificity 6-/3-kinase; lpmK; ArgRIII; AtIpK2 α ; AtIpK2 β ; inositol polyphosphate 6-/3-/5-kinase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 2.7.1.151

CAS No.

9077-69-4

Reaction

2 ATP + 1D-myo-inositol 1,4,5-trisphosphate = 2 ADP + 1D-myo-inositol 1,3,4,5,6-pentakisphosphate (overall reaction); (1a) ATP + 1D-myo-inositol 1,4,5-trisphosphate = ADP + 1D-myo-inositol 1,4,5,6-tetrakisphosphate; (1b) ATP + 1D-myo-inositol 1,4,5,6-tetrakisphosphate = ADP + 1D-myo-inositol 1,3,4,5,6-pentakisphosphate

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.