

inositol-polyphosphate multikinase

Cat. No. EXWM-2982

Lot. No. (See product label)

Introduction

Description This enzyme also phosphorylates lns(1,4,5)P3 to lns(1,3,4,5)P4, lns(1,3,4,5)P4 to lns(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; IpmK; ArgRIII; Atlpk2α; Atlpk2β; 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

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

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