Creative Enzymes®

inositol-tetrakisphosphate 1-kinase

Cat. No. EXWM-2966

Lot. No. (See product label)

Introduction

Description	This enzyme also phosphorylates Ins(1,3,4)P3 on O-5 and O-6. The phosphotransfer from ATP to either inositol 1,3,4-trisphosphate or inositol 3,4,5,6-tetrakisphosphate appears to be freely reversible to the extent that the enzyme can act like an inositol polyphosphate phosphatase in the presence of ADP. It can also catalyse an isomerization between Ins(1,3,4,5)P4 and Ins(1,3,4,6)P4 in the presence of ADP.
Synonyms	1D-myo-inositol-tetrakisphosphate 1-kinase; inositol-trisphosphate 6-kinase; 1D-myo-inositol-trisphosphate 6-kinase; ATP:1D-myo-inositol-1,3,4-trisphosphate 6-phosphotransferase; inositol-trisphosphate 5-kinase; 1D-myo-inositol-trisphosphate 5-kinase; ATP:1D-myo-inositol-1,3,4-trisphosphate 5-phosphotransferase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.7.1.134
CAS No.	187175-98-0
Reaction	ATP + 1D-myo-inositol 3,4,5,6-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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.