

phosphorylase kinase

Cat. No. EXWM-3138

Lot. No. (See product label)

Introduction

Description

Requires Ca²⁺ and calmodulin for activity. The enzyme phosphorylates a specific serine residue in each of the subunits of the dimeric phosphorylase b. For muscle phosphorylase but not liver phosphorylase, this is accompanied by a further dimerization to form a tetrameric phosphorylase. The enzyme couples muscle contraction with energy production via glycogenolysis-glycolysis by catalysing the Ca²⁺-dependent phosphorylation and activation of glycogen phosphorylase b. The γ subunit of the tetrameric enzyme is the catalytic subunit.

Synonyms

dephosphophosphorylase kinase; glycogen phosphorylase kinase; PHK; phosphorylase b kinase; phosphorylase B kinase; phosphorylase kinase (phosphorylating); STK17

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 2.7.11.19

CAS No.

9001-88-1

Reaction

2 ATP + phosphorylase b = 2 ADP + phosphorylase a

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.