

phosphorylase kinase

Cat. No. EXWM-3138

Lot. No. (See product label)

Introduction

Description Requires Ca^{2+} 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 Ca^{2+} -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 $2 \text{ ATP} + \text{phosphorylase b} = 2 \text{ ADP} + \text{phosphorylase a}$

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 $+4\text{ }^{\circ}\text{C}$ for short term. For long term storage, store it at $-20\text{ }^{\circ}\text{C} \sim -80\text{ }^{\circ}\text{C}$.