

Product Data Sheet

Product Name: Phosphorylase kinase

Cat. No.: GF04689

Chemical Properties

Cas. No. 9001-88-1

Formula

M.Wt

Solubility

Storage

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Phosphorylase kinase

Background

Phosphorylase kinase relies on Ca^{2+} to exert its activity. Phosphorylase kinase's sensitivity to

Caution: Product has not been fully validated for medical applications. For research use only.

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Ca^{2+} is influenced by its activation state and pH. Phosphorylase kinase can be activated by adrenaline^{[1][2]}.

Phosphorylase kinase (5 minutes) increases its affinity for Ca^{2+} after activation ^[1].

Phosphorylase kinase is inhibited by Ca^{2+} uptake by the sarcoplasmic reticulum, and this inhibition can be reversed by adding exogenous Ca^{2+} ^[1].

References:

[1]. Brostrom CO, et al. The regulation of skeletal muscle phosphorylase kinase by Ca^{2+} . J Biol Chem. 1971 Apr 10;246(7):1961-7.

[2]. Yeaman SJ, et al. The hormonal control of activity of skeletal muscle phosphorylase kinase. Phosphorylation of the enzyme at two sites in vivo in response to adrenalin. Eur J Biochem. 1975 Feb 3;51(1):93-104.

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