

cGMP-dependent protein kinase

Cat. No. EXWM-3131

Lot. No. (See product label)

Introduction

Description

cGMP is required to activate this enzyme. The enzyme occurs as a dimer in higher eukaryotes. The C-terminal region of each polypeptide chain contains the catalytic domain that includes the ATP and protein substrate binding sites. This domain catalyses the phosphorylation by ATP to specific serine or threonine residues in protein substrates. The enzyme also has two allosteric cGMP-binding sites (sites A and B). Binding of cGMP causes a conformational change that is associated with activation of the kinase.

Synonyms

3':5'-cyclic GMP-dependent protein kinase; cGMP-dependent protein kinase I β ; guanosine 3':5'-cyclic monophosphate-dependent protein kinase; PKG; PKG 1 α ; PKG 1 β ; PKG II; STK23

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 2.7.11.12

CAS No.

141588-27-4

Reaction

ATP + a protein = ADP + a phosphoprotein

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.