

RP03426LQ

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Recombinant Human CaMKIV/CAMK4 Kinase

Catalog No.: RP03426LQ **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Baculovirus- Insect Cells	814	Q16566

Tags

N-GST

Synonyms

CAMK4; CAMK; CAMK-GR; CAMKIV;
CaMK IV; CaM kinase-GR;
Calcium/calmodulin-dependent
protein kinase type IV

Product Information

Source

Purification

≥ 80 % as
determined by
SDS-PAGE; ≥ 80 %
as determined by
HPLC.

Endotoxin

< 1 EU/μg of the protein by LAL
method.

Formulation

Supplied as a 0.22 μm filtered solution
in 50 mM Tris-HCl, 150 mM NaCl, 5%
glycerol, 5 mM DTT, 0.1 M Trehalose.
(pH 7.5). Contact us for customized
product form or formulation.

Reconstitution

Please use running water to thaw it
quickly.

Contact



www.abclonal.com

Background

Calcium/calmodulin-dependent protein kinase type IV is an enzyme that in humans is encoded by the CAMK4 gene. The product of this gene belongs to the serine/threonine protein kinase cluster, and to the Ca²⁺/calmodulin-dependent protein kinase (CAMK) group. This enzyme is a multifunctional serine/threonine protein kinase with limited tissue distribution, that has been implicated in transcriptional regulation in lymphocytes, neurons, and male germ cells.

Basic Information

Description

Recombinant Human CaMKIV/CAMK4 Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Leu2-Tyr473) of Human CAMK4 (Accession #Q16566) fused with a N-GST tag.

Bio-Activity

The activity of CaMK4 is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Storage

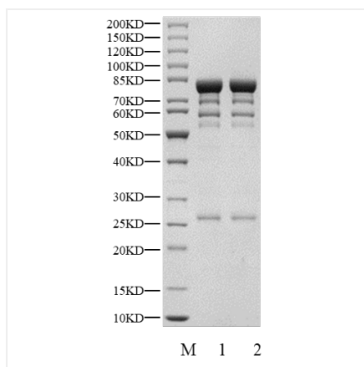
Store at -70°C. This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.

Aliquots below 10 μL are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles.

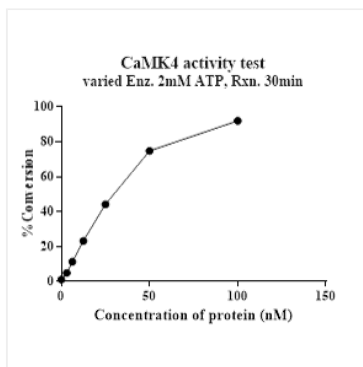
Avoid repeated freeze/thaw cycles.

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Validation Data



Recombinant Human CaMKIV/CAMK4 Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



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