# Recombinant Human CaMKIV/CAMK4 Kinase

## Catalog No.: RP03426LQ

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## Sequence Information

**Species**
Human

**Gene ID**
814

**Swiss Prot**
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**
Baculovirus-Insect Cells

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

**Calculated MW**
78.4 kDa

**Observed MW**
70-85 kDa

**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.

## 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.

**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**
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

**Storage**
Store at -70℃

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

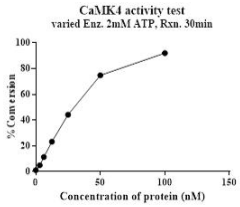
**Contact**

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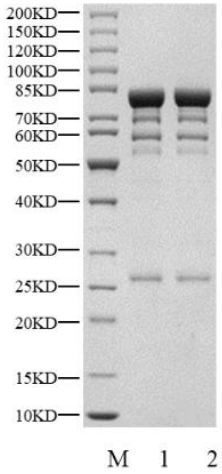


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## Validation Data




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.




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