

Catalog No.: RP03426LQ **Recombinant**

Species	Gene ID	Swiss Prot
Human	814	Q16566

N-GST

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

Source	Purification
Baculovirus-Insect Cells	≥ 80 % as determined by SDS-PAGE; ≥ 80 % as determined by HPLC.

Calculated MW	Observed MW
78.4 kDa	70-85 kDa

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

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.

Please use running water to thaw it quickly.

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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.

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.

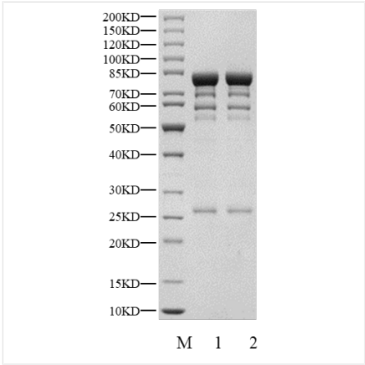
The activity of CaMK4 is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

Store at -70°C. This product is stable at $\leq -70^{\circ}\text{C}$ for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.

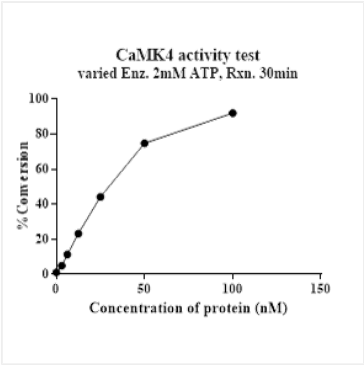
Aliquots below 10 μ L are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles.

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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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