

## CAMK2 gamma Recombinant Protein | CAMK2gamma recombinant protein

CAMK2 gamma, Active

|                              |                                 |                                     |
|------------------------------|---------------------------------|-------------------------------------|
| CATALOG #<br><b>AAA73311</b> | HOST<br><b>Sf9 insect cells</b> | APPLICATIONS<br><b>Western Blot</b> |
|------------------------------|---------------------------------|-------------------------------------|

### PRODUCT SYNONYMS

CAMK2 gamma; Active; CAMKG; CAMK; CAMK-II; MGC26678; CAMK2gamma recombinant protein

### PRODUCT SPECIFICATIONS

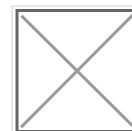
|                                                            |                                                                                                                                                                                                                                                |
|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                       | Sf9 insect cells                                                                                                                                                                                                                               |
| Purity/Purification                                        | >70%                                                                                                                                                                                                                                           |
| Form/Format                                                | Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol.                                                                                                                  |
| Concentration                                              | 0.1ug/ul (varies by lot)                                                                                                                                                                                                                       |
| Applicable Applications for CAMK2gamma recombinant protein | WB (Western Blot), Kinase Assay                                                                                                                                                                                                                |
| Tag                                                        | GST                                                                                                                                                                                                                                            |
| Species                                                    | Human                                                                                                                                                                                                                                          |
| Dry Ice Note                                               | The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.                                                                                                                                             |
| Preparation and Storage                                    | Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. |

### IMAGES



#### SDS-PAGE

The purity was determined to be &gt;70% by densitometry. CAMK2&amp;gamma; Approx. MW 60kDa.



#### Activity

The specific activity of CAMK2&amp;gamma; was determined to be 1,260 nmol/min/mg as per activity assay protocol and was equivalent to 220 nmol/min/mg as per radiometric assay.

### ADDITIONAL INFORMATION

|                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| Related Product Information for CAMK2gamma recombinant protein | <p>Recombinant human CAMK2gamma (c-terminal truncation) was expressed by baculovirus in Sf9 cells using an N-terminal GST tag. The gene accession number is NM_172169.</p> <p>CAMK2gamma is a member of the CAMKII family which are ubiquitous serine/threonine protein kinases that have been implicated in diverse effects of hormones and neurotransmitters. CAMK2gamma has six alternatively spliced variants that encode six different isoforms. Some of these variants have been identified in human tumors (1).</p> <p>Transgenic mice expressing a partially calcium-independent mutant form of CAMKG showed 1.5-to 2-fold increase in the thymus of these mice, at least in part due to an increase in the life span of double-positive thymocytes (2).</p> <p>There was an increase in the number of T cells in the secondary lymphoid organs that had acquired an antigen-dependent memory phenotype.</p> |
| Product Categories/Family for CAMK2gamma recombinant protein   | <a href="#">Protein Kinases</a> ; <a href="#">Cardiovascular Disease</a> ; <a href="#">ERK/MAPK Pathway</a> ; <a href="#">Neurobiology</a> ; <a href="#">PKA/PKC Pathway</a> ; <a href="#">Ser/Thr Kinases</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

### References

1. Tombes, R. M. et al: Identification of novel human tumor cell-specific CaMK-II variants. Biochim. Biophys. Acta 1355: 281-292, 1997.

2. Bui, J. D. et al: A role for CaMKII in T cell memory. Cell 100: 457-467, 2000.

### NCBI AND UNIPROT INFORMATION

|                           |           |
|---------------------------|-----------|
| NCBI GenBank Nucleotide # | NM_172169 |
| Molecular Weight          | 60kDa     |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/camk2-gamma-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73311>