

**Recombinant Human CAMK4 / CaMKIV Protein (GST tag)**

**Cat.NO.: TP06781**

---

3th Edition

**Synonyms:**caMK;CaMK-GR;CaMKIV;IV

**Description:**Ca<sup>2+</sup>/calmodulin-dependent protein kinase 4 (CAMK?) belongs to the serine/threonine protein kinase family, and to the Ca<sup>2+</sup>/calmodulin-dependent protein kinase subfamily which is widely recognized as an essential enzyme implicated in the phosphoinositide amplification cascade. Ca<sup>2+</sup>/calmodulin dependent protein kinase (CAMK) can be activated by the intracellular increased Ca<sup>2+</sup> and then apt to combine with the target protein. Ca<sup>2+</sup>/calmodulin-dependent protein kinase 4 (CAMK?) is a multifunctional CaM-dependent kinase protein with limited tissue distribution, that has been implicated in transcriptional regulation in lymphocytes, neurons and male germ cells. All of the isoforms of this family, including myosin light chain kinase, phosphorylase kinase, CaMK1, CaMK? and CaMK? have EF-hand structure.

**Form:**PBS

**Molecular Weight:**79 kDa

**Sequences:**Met 1-Tyr 473

**Purity:**> 95% by HPLC

**Concentration:**

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.