



Recombinant Protein Technical Manual  
Recombinant Human CAMK1D Protein (GST Tag)  
RPES3985

### Product Data:

**Product SKU:** RPES3985

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** Q8IU85

### Protein Information:

**Molecular Mass:** 69.2 kDa

**AP Molecular Mass:** 60-70 kDa

**Tag:** N-GST

**Bio-activity:**

**Purity:** > 90% as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

**Shipping:** This product is provided as liquid. It is shipped at frozen temperature with blue ice. Upon receipt, store it immediately at < -20°C.

**Formulation:** Supplied as a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH7.4.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Calcium/calmodulin-dependent protein kinase type 1D; CaM kinase I delta; CaMKI-like protein kinase; CAMK1D; CaMK1 delta; CaM-K1; CKLiK

## Immunogen Information:

**Sequence:** Met1-Lys385

## Background:

CAMK1D is a serine threonine kinase that is a member of the calcium/calmodulin-dependent protein kinase family. It contains a protein kinase domain. CAMK1D expressed in polymorphonuclear leukocytes and may be part of the chemokine signal transduction pathway that regulates granulocyte function. It may also be involved in modulation of neuronal apoptosis. It activates CREB-dependent gene transcription, regulates calcium-mediated granulocyte function and respiratory burst and promotes basal dendritic growth of hippocampal neurons.