

# Recombinant Human CaMKII delta/CAMK2D Kinase

Catalog No.: RP03418LQ Recombinant

# **Sequence Information**

Species Gene ID Swiss Prot Human 817 013557

Tags N-GST

**Synonyms** 

CAMK2D; CAMKD; CaMK2δ; CaM kinase II subunit delta; CaMK-II subunit delta; CaMKII Delta; Calcium/calmodulindependent protein kinase type II subunit delta

#### **Product Information**

# **Source** Purification Baculovirus-Insect ≥ 80 % as

Cells

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

# Calculated MW Observed MW

82.9 kDa 70-85 kDa

#### **Endotoxin**

< 1 EU/ $\mu g$  of the protein by LAL method.

## Formulation

Supplied as a 0.22  $\mu$ m filtered solution in 50 mM Tris-HCl, 200 mM NaCl, 5% glycerol, 1 mM DTT. (pH 7.5). Contact us for customized product form or formulation.

# Reconstitution

Please use running water to thaw it quickly.

### **Contact**

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# **Background**

Calcium/calmodulin-dependent protein kinase type II delta chain is an enzyme that in humans is encoded by the CAMK2D gene. The product of this gene belongs to the serine/threonine protein kinase family and to the Ca2+/calmodulin-dependent protein kinase subfamily. Calcium signaling is crucial for several aspects of plasticity at glutamatergic synapses. In mammalian cells, the enzyme is composed of four different chains: alpha, beta, gamma, and delta. The product of this gene is a delta chain. Four alternatively spliced transcript variants that encode three different isoforms have been characterized to date. Distinct isoforms of this chain have different expression patterns.

## **Basic Information**

#### **Description**

Recombinant Human CaMKII delta/CAMK2D Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Ala2-Ile499) of Human CAMK2D (Accession #Q13557) fused with a N-GST tag.

#### **Bio-Activity**

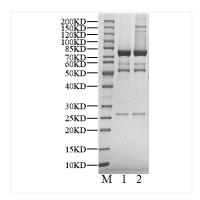
The activity of CAMK2D is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

#### Storage

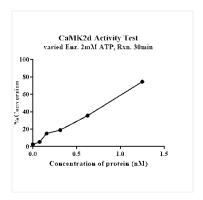
Store at -70°C. This product is stable at  $\leq$  -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.

Aliquots below 10  $\mu\text{L}$  are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles.

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Recombinant Human CaMKII delta/CAMK2D Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



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