

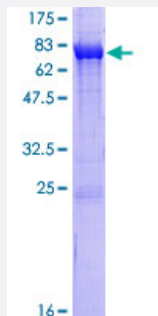
Full-Length

CAMK2D (Human) Recombinant Protein (P01)

Catalog # H00000817-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human CAMK2D full-length ORF (NP_742126.1, 1 a.a. - 478 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MASTTTCTRFTDEYQLFEELGKGAFSVVRRCKIPTGQEYAAKIINTKKLSARDHQKLREARICRL
LKHPNIVRLHDSISEEGFHYLVFDLVTGGELFEDVAREYYSEADASHCIQQILESVDHCHLNGVHR
DLKPENLLLASKSKGA AVKLADFG LAIEVQGDQQAWFGFAGTPGYLSPEVLRKDPYGKPVDMW
ACGVILYILLVGYPFWDEDQHRLYQQIKAGAYDFPSPEWDTVTPEAKDLINKMLTINPAKRITASEA
LKHPWICQRSTVASMMHRQETVDCLKKFNARRKLKGAILTTMLATRNFSAAKSLLKKPDGVKEST
ESSNTTIEDVDKARKQEIIKVTEQLIEAINNGDFEAYTKICDPGLTAFEPEALGNLVEGMDFHRFYF
ENALSKSNKPIHTIILNPHVHLVGDDAACIAYIRLTQYMDGSGMPKTMQSEETRVWHRRDGKWQNV
HFHRSGSPTVPIN

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

80.5

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — CAMK2D

Entrez GeneID[817](#)**GeneBank Accession#**[NM_172128.1](#)**Protein Accession#**[NP_742126.1](#)**Gene Name**

CAMK2D

Gene Alias

CAMKD, DKFZp686G23119, DKFZp686I2288, MGC44911

Gene Description

calcium/calmodulin-dependent protein kinase II delta

Omim ID[607708](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

The product of this gene belongs to the serine/threonine protein kinase family and to the Ca(2+)/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. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Distinct isoforms of this chain have different expression patterns

Other Designations

CaM kinase II delta subunit|CaM-kinase II delta chain|CaMK-II delta subunit|OTTHUMP00000163829|OTTHUMP00000163830|calcium/calmodulin-dependent protein kinase (CaM kinase) II delta|calcium/calmodulin-dependent protein kinase type II delta chain

Pathway

- [Calcium signaling pathway](#)
- [ErbB signaling pathway](#)
- [Glioma](#)
- [GnRH signaling pathway](#)
- [Long-term potentiation](#)
- [Melanogenesis](#)
- [Neurotrophin signaling pathway](#)
- [Olfactory transduction](#)
- [Wnt signaling pathway](#)

Disease

- [Alcoholism](#)
- [Genetic Predisposition to Disease](#)
- [Mucocutaneous Lymph Node Syndrome](#)
- [Tobacco Use Disorder](#)