

Recombinant Human Calcium/Calmodulin-Dependent Protein Kinase IV, His-tagged

Cat. No. CAMK4-1379H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinanthuman CAMK4 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by conventional chromatography.
Species	Human
Source	E.coli
Description	CAMK4 belongs to the serine/threonine protein kinase family, and to the Ca ²⁺ /calmodulin-dependent protein kinase subfamily. This enzyme is a multifunctional serine/threonine protein kinase with limited tissue distribution, that has been implicated in transcriptional regulation in lymphocytes, neurons and male germ cells. Recombinant human CAMK4 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.1M NaCl.
Molecular Weight	54.5 kDa(497aa)
Purity	> 85% by SDS-PAGE
Concentration	0.5 mg/ml(determined by Bradford assay)
Sequences of aminoacids	MGSSHHHHHHSSGLVPRGSH MGSHTMLKVTV PSCSASSCSS VTASAAPGTA SLVPDYWIDGNSRDALSDFE EVESELGRGA TSIVYRCKQK GTQKPYALKV

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LKKTVDKKIV RTEIGVLLRL SHPNIKLKEIFETPTEISL VLELVTGGEL FDRIVEKGY
 SERDAADAVK QILEAVAYLH ENGIVHRDLK PENLLYATPAPDAPLKIADF
 GLSKIVEHQV LMKTVCGTPG YCAPEILRGC AYGPEVDMWS VGIITYILLC
 GFEPFYDERG DQFMFRRILNCEYYFISPWW DEVSLNAKDL VRKLIVLDPK
 KRLTTFQALQ HPWVTGKAAN FVHMDTAQKK LQEFNARRKLKAAVKAVVAS
 SRLGSASSSH GSIQESHKAS RDPSPIQDGN EDMKAIPEGE KIQGDGAQAA
 VKGAQAELMKVQALEKVKGA DINAEEAPKM VPKAVEDGIK VADLELEEGL
 AEEKLKTVEE AAPREGQGS SAVGFVPPQQDVILPEY

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.

Pathways

Activation of CaMKIV; Ca-dependent events; Ca-dependent events; Calcium signaling pathway; Calmodulin induced events; Calmodulin induced events; Energy Metabolism; G-protein mediated events; Long-term potentiation; Mitochondrial Gene Expression; Neurotrophin signaling pathway; Opioid Signalling; Osteoclast differentiation; PLC beta mediated events; Signalling by NGF

GENE INFORMATION

Gene Name

CAMK4 calcium/calmodulin-dependent protein kinase IV [Homo sapiens]

Official Symbol

CAMK4

Synonyms

CAMK4; calcium/calmodulin-dependent protein kinase IV; IV; caMK; CaMK IV; CaMK-GR; MGC36771; calcium/calmodulin-dependent protein kinase type IV; CAMkinase IV; caM kinase-GR; CAM kinase- GR; OTTHUMP00000159000; OTTHUMP00000222818; brain Ca⁺⁺-calmodulin-dependent protein kinase type IV; brain Ca(2+)-calmodulin-dependent protein kinase type IV; calcium/calmodulin-dependent protein kinase type IV catalytic chain

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Gene ID	814
mRNA Refseq	NM_001744
Protein Refseq	NP_001735
MIM	114080
UniProt ID	Q16566
Chromosome Location	5q21-q23
Function	ATP binding; calmodulinbinding; nucleotide binding; calmodulin-dependent protein kinase activity

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