

Recombinant human CAMK4 protein

Catalog Number: ATGP1379

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-473aa

UniProt No.

Q16566

NCBI Accession No.

NP_001735

Alternative Names

Calcium/calmodulin-dependent protein kinase type IV, caMK, CaMK IV, CaMK-GR, IV

PRODUCT SPECIFICATION

Molecular Weight

54.5 kDa (497aa)

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.1M NaCl

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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.

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Amino acid Sequence

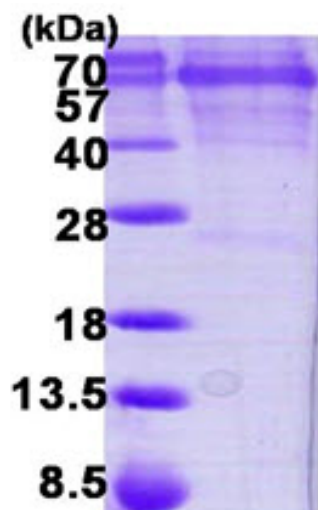
MGSSHHHHHH SSSLVPRGSH MGSMLKVTV PSCSASSCSS VTASAAPGTA SLVPDYWIDG SNRDALSDFF EVESELGRGA
TSIVYRCKQK GTQKPYALKV LKKTVDKIV RTEIGVLLRL SHPNIKLKE IFETPTEISL VLELVTGGEL FDRIVEKGY
SERDAADAVK QILEAVAYLH ENGIVHRDLK PENLLYATPA PDAPLKIADF GLSKIVEHQV LMKTVCCTPG YCAPEILRGC
AYGPEVDMWS VGIIYILLC GFEPFYDERG DQFMFRRILN CEYFISPWW DEVSLNAKDL VRKLIVLDPK KRLTTFQALQ
HPWVTGKAAN FVHMDTAQKK LQEFNARRKL KAAVKAVVAS SRLGSASSSH GSIQESHKAS RDPSPIQDGN EDMKAIPEGE
KIQGDGAQAA VKGAQAELMK VQALEKVKGA DINAAEAPKM VPKAVEDGIK VADLELEEGL AEEKLKTVEE AAPREGQGS
SAVGFEVPPQ DVILPEY

General References

Tombes R.M. et al. (1995) Cell Growth Diff. 6:1063-1070.
Tokumitsu H. et al. (1995) J. Biol. Chem. 270: 19320-19324.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

12% SDS-PAGE (3ug)