

Calcium/Calmodulin-Dependent Protein Kinase IV Human Recombinant

Item Number	rAP-1668
Synonyms	Calcium/calmodulin-dependent protein kinase type IV catalytic chain, CaMK-GR, CaM kinase-GR, CaMK IV, IV, brain Ca(2+)-calmodulin-dependent protein kinase type IV, caMK, CAM kinase IV, EC 2.7.11.17.
Description	CAMK4 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 497 amino acids (1-473) and having a molecular mass of 54.5kDa.CAMK4 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.
Uniprot Accession Number	Q16566
Amino Acid Sequence	MGSSHHHHH SSGLVPRGSH MGSFMLKVTV PSCSASSCSS VTASAAPGTA SLVPDYWIDG SNRDALSDFF EVESELGRGA TSIVYRCKQK GTQKPYALKV LKKTVDKKIV RTEIGVLLRL SHPNIILKE IFETPTEISL VLELVTGGEL FDRIVEKGYG SERDAADAVK QILEAVAYLH ENGIVHRDLK PENLLYATPA PDAPLKIADF GLSKIVEHQV LMKTVCCTPG YCAPEILRGC AYGPEVDMWS VGIITYILLC GFEPFYDERG DQFMFRRILN CEYYFISPPW DEVSLNAKDL VRKLIVLDPK KRLTTFQALQ HPWVTGKAAN FVHMDTAQKK LQEFNARRKL KAAVKAVVAS SRLGSASSSH GSIQESHKAS RDPSPIQDGN EDMKAI- PEGE KIQGDGAQAA VKGAQAELMK VQALEKVKGA DINAEAPKM VPKAVEDGIK VADLELEEG AEEKLKTVEE AAPREGQGS SAVGFEVPQQ DVILPEY.
Source	E.coli.
Physical Appearance and Stability	Sterile Filtered colorless solution. Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.
Formulation and Purity	The CAMK4 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 100mM NaCl and 10% glycerol. Greater than 85% as determined by SDS-PAGE.
Application	
Solubility	
Biological Activity	
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**