
Product Data Sheet

Product Name: CAMK4 Human
 Cat. No.: GP22430
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSHTMLKVTV PSCSASSCSS VTASAAPGTA SLVPDYWIDG SNRDALSDFE EVESELGRGA TSIVYRCKQK GTQKPYALKV LKKTVDKKIV RTEIGVLLRL SHPNIKLKE IFETPTEISL VLELVTGGEL FDRIVEKGYG SERDAADAVK QILEAVAYLH ENGIVHRDLK PENLLYATPA PDAPLKIADF GLSKIVEHQV LMKTVCGTPG YCAPEILRGC AYGPEVDMWS VGIITYILLC GFEPFYDERG DQFMFRRILN CEYFISPWW DEVSLNAKDL VRKLIVLDPK KRLTTFQALQ HPWVTGKAAN FVHMDTAQKK LQEFNARRKL KAAVKAVVAS SRLGSASSSH GSIQESHKAS RDPSPIQDGN EDMKAIPEGE KIQGDGAQAA VKGAQAELMK VQALEKVKGA DINAEEAPKM VPKAVEDGIK VADLELEEGL AEEKLKTVEE AAPREGQGS SAVGFEVPQQ DVILPEY.		
Formulation	The CAMK4 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 100mM NaCl and 10% glycerol.		

Introduction

CAMK4 is a member of the serine/threonine protein kinase family, and of the Ca(2+)/calmodulin-dependent protein kinase subfamily. CAMK4 is a multifunctional serine/threonine protein kinase with restricted tissue distribution which is associated to transcriptional regulation in lymphocytes, neurons and male germ cells.

Stability

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%

Caution: Product has not been fully validated for medical applications. For research use only.

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

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.

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