

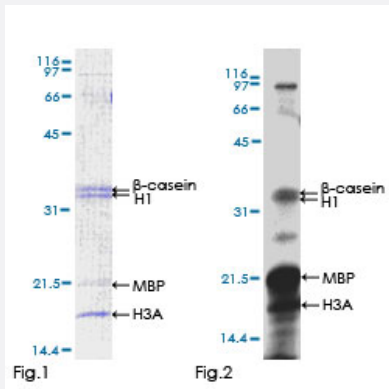
Full-Length

CAMK4 (Human) Recombinant Protein (P01)

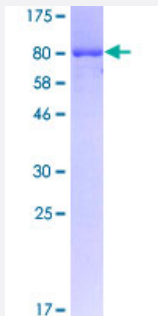
Catalog # H00000814-P01

Size 25 ug, 10 ug

Applications



Kinase Assay



Specification

Product Description

Human CAMK4 full-length ORF (AAH25687.1, 1 a.a. - 473 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence	MLKVTVPSCSASSCSSVTASAAPGTASLVPDYWIDGSNRDALSDFFEVESELGRGATSIVYRCK QKGTQKPYALKVLKKTVDKKVRTEIGVLLRLSHPNIIKLKEIFETPTEISLVLELVTGGELFDRIVEKG YYSERDAADAVKQILEAVAYLHENGIVHRDLKPENLLYATPAPDAPLKIADFGLSKIVEHQVLMKTV CGTPGYCAPEILRGAYGPEVDMWSVGIIYILLCGFEPFYDERGDQFMFRRILNCEYFISPWWD EVSLNAKDLVRKLMVLDPPKKRLTTFQALQHPWVTGKAANFVHMDTAQKKLQEFNARRKLKAAVK AVVASSRLGSASSSHGSIQESHKASRDPSPIQDGNEDMKAPEGEKIQGDGAQAAVKGAQAELM KVQALEKVKGADINAEAPKMVPAVEDGIKVADLEEEGLAEKLTVEEAAAPREGQGSSAV GFEVPQQDVILPEY
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	77.66
Interspecies Antigen Sequence	Mouse (81); Rat (79)
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

- Kinase Assay
[Protocol Download](#)
- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — CAMK4

Entrez GeneID	814
GeneBank Accession#	BC025687
Protein Accession#	AAH25687.1
Gene Name	CAMK4
Gene Alias	CaMK-GR, MGC36771
Gene Description	calcium/calmodulin-dependent protein kinase IV
Omim ID	114080
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. 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. [provided by RefSeq]
Other Designations	CAM kinase IV CAM kinase- GR brain Ca(2+)-calmodulin-dependent protein kinase type IV brain Ca++-calmodulin-dependent protein kinase type IV calcium/calmodulin-dependent protein kinase type IV catalytic chain

Pathway

- [Calcium signaling pathway](#)
- [Long-term potentiation](#)
- [Neurotrophin signaling pathway](#)

Disease

- [Alcoholism](#)
- [Azoospermia](#)
- [Genetic Predisposition to Disease](#)
- [Narcolepsy](#)
- [Oligospermia](#)
- [Tobacco Use Disorder](#)