

Bioactive

Full-Length

CAMK4 (Human) Recombinant Protein

Catalog # P6477

Size 5 ug

Applications

Result of activity analysis

Result of activity analysis

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Specification

Product Description	Human CAMK4 (NP_001735.1, 1 a.a. - 473 a.a.) full length recombinant protein with GST-tag at N-terminal using baculovirus expression system.
Host	Viruses
Form	Liquid
Preparation Method	Baculovirus expression system.
Purification	Glutathione sepharose chromatography.
Purity	0.98
Activity	The activity was measured by off-chip mobility shift assay (MSA). The enzyme was incubated with fluorescence-labeled substrate, Mg (or Mn)/ATP, and Ca/Calmodulin. The phosphorylated and unphosphorylated substrates were separated and detected by MSA device. Substrate: GS peptide, ATP: 100 uM.
Quality Control Testing	The purity was assessed by SDS-PAGE/CBB staining.
Storage Buffer	50 mM Tris-HCl, 150 mM NaCl, 0.05% Brij35, 1 mM DTT, 10% glycerol, pH7.5
Storage Instruction	Stored at -80°C. Aliquot to avoid repeated freezing and thawing.

Note	Result of activity analysis
	Result of activity analysis

Applications

- Functional Study

Gene Info — CAMK4

Entrez GeneID	814
Protein Accession#	NP_001735.1
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](#)