

Recombinant Mouse CAMK4/CaMKIV Protein (Active)

Catalog No. PKSM040459

Description

Synonyms	A430110E23Rik;AI666733;CaMKIV;CaMKIV/Gr;D18Bwg0362e
Species	Mouse
Expression_host	Baculovirus-Insect Cells
Sequence	Met1-Tyr469
Accession	P08414
Mol_Mass	52.7 kDa
AP_Mol_Mass	55 kDa
Tag	None
Bio_activity	Kinase activity untested

Properties

Purity	>95 % as determined by reducing SDS-PAGE.
Endotoxin	<1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile 20mM Tris, 500mM NaCl, 10% glycerol, pH 7.4
Reconstitution	Please refer to the printed manual for detailed information.

Background

Ca²⁺/calmodulin-dependent protein kinase 4 (CAMKIV) belongs to the serine/threonine protein kinase family, and to the Ca²⁺/calmodulin-dependent protein kinase subfamily which is widely recognized as an essential enzyme implicated in the phosphoinositide amplification cascade. Ca²⁺/calmodulin dependent protein kinase (CAMK) can be activated by the intracellular increased Ca²⁺ and then apt to combine with the target protein. Ca²⁺/calmodulin-dependent protein kinase 4 (CAMKIV) is a multifunctional CaM-dependent kinase protein with limited tissue distribution, that has been implicated in transcriptional regulation in lymphocytes, neurons and male germ cells. All of the isforms of this family, including myosin light chain kinase, phosphorylase kinase, CaMK1, CaMKIII and CaMKIV have EF-hand structure.

SDS-PAGE

