Recombinant Human CAMK2 alpha (N-GST tag)

Cat No:HR2R1216

For research use only

Overview

Quantity	10 ?g
Gene Symbol	CAMK2a
Gene ID	N/A
Accession	NM_171825
Alternative Name	CAMKA; KIAA0968
Species	Human
Source	Insect cells
Description	CAMK2a is a ser/thr protein kinase that is a member of the Ca2+/calmodulin-dependent protein kinase family. CAMK2a is abundant in the brain as a major constituent of the postsynaptic density and is required for hippocampal long-term potentiation (LTP) and spatial learning. In addition to its Ca2+/calmodulin-dependent activity, CAMK2a can undergo autophosphorylation, resulting in Ca2+/calmodulin-independent activity. The protein level of CAMK2a fluctuates during neuronal activity in cultured rat pup hippocampal neurons. The levels of CAMK2a increased with heightened neuronal activity .?
Functions	The specific activity of CAMK2a was determined to be 256 nmol /min/mg as per activity assay protocol.
Formulation	50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol.
Solubility	N/A
Appearance	Liquid
Molecular Weight	74
Purity	70% - 90%
Concentration	
Shipping Condition	Dry Ice
Storage Condition	Store product at ?70?C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.