

32-8171: Recombinant Human CaM Kinase II Subunit beta/CAMK2B (C-6His)

Gene : CAMK2B

Gene ID : 816

Uniprot ID : Q13554

Description

Source: E. coli.

MW :57.4kD.

Recombinant Human CaM Kinase II Subunit Beta is produced by our E.coli expression system and the target gene encoding Met1-Gln503 is expressed with a 6His tag at the C-terminus. Calcium/Calmodulin-Dependent Protein Kinase Type II Subunit Beta (CAMK2B) is a cytoplasmic protein that belongs to the serine/threonine protein kinase family and the Ca(2+)/calmodulin-dependent protein kinase subfamily. CAMK2B is a calcium/calmodulin-dependent protein kinase that functions autonomously after Ca²⁺/calmodulin-binding and autophosphorylation. It is involved in dendritic spine and synapse formation, neuronal plasticity and regulation of sarcoplasmic reticulum Ca²⁺ transport in skeletal muscle. In neurons, CAMK2B plays an essential structural role in the reorganization of the actin cytoskeleton during plasticity by binding and bundling actin filaments in a kinase-independent manner.

Product Info

Amount : 10 µg / 50 µg

Content : Supplied as a 0.2 µm filtered solution of 10mM HEPES, 150mM NaCl, pH 7.5.

Storage condition : Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.

Amino Acid : MATTVTCTRFTDEYQLYEDIGKGAFSVVRRCVKLCTGHEYAAKIINTKKLSARDHQKLEREARICRLKHSNIVRL
HDSISEEGFHLYLVDLVTGGELFEDIVAREYYSEADASHCIQQILEAVLHCHQMGVVHRDLKPENLLLASKCKGA
AVKLADFGLAIEVQGDQQAWFQFAGTPGYLSPEVLRKEAYGKPVDIWACGVILYILLVGYPPFWDEDQHKLYQ
QIKAGAYDFPSPWDVTPEAKNLINQMLTINPAKRITAHEALKHPWVCQRSTVASMMHRQETVECLKKFNAR
RKLKGAILTTMLATRNFSAAKSLNKKADGVKQPQTNSTKNSAAATSPKGTLPAALESSESDSANTTIEDEDAKARK
QEIKTTEQLIEAVNNGDFEAYAKICDPGLTSFEPEALGNLVEGMDFHRFYFENLLAKNSKPIHTILNPHVHVIGE
DAACIAYIRLTQYIDGQGRPRTSQSEETRVWHRRDQGWQNVVHFHCSGAPVAPLQLEHHHHHHH

Application Note

Endotoxin : Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.