Recombinant Human CaMKII delta/CAMK2D Kinase

Catalog No.: RP03418LQ

Sequence Information

Species
Human

Gene ID
817

Swiss Prot
Q13557

Tags
N-GST

Synonyms
CAMK2D; CAMKD; CaMK2δ; CaM kinase II subunit delta; CaMK-II subunit delta; CaMKII Delta; Calcium/calmodulin-dependent protein kinase type II subunit delta

Product Information

Source
Baculovirus-Insect Cells

Purification
≥ 80 % as determined by SDS-PAGE;≥ 80 % as determined by HPLC.

Calculated MW
82.9 kDa

Observed MW
70-85 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Supplied as a 0.22 μm filtered solution in 50 mM Tris-HCl, 200 mM NaCl, 5% glycerol, 1 mM DTT. (pH 7.5). Contact us for customized product form or formulation.

Reconstitution
Please use running water to thaw it quickly.

Background

Calcium/calmodulin-dependent protein kinase type II delta chain is an enzyme that in humans is encoded by the CAMK2D gene. The product of this gene belongs to the serine/threonine protein kinase family and to the Ca2+ /calmodulin-dependent protein kinase subfamily. Calcium signaling is crucial for several aspects of plasticity at glutamatergic synapses. In mammalian cells, the enzyme is composed of four different chains: alpha, beta, gamma, and delta. The product of this gene is a delta chain. Four alternatively spliced transcript variants that encode three different isoforms have been characterized to date. Distinct isoforms of this chain have different expression patterns.

Basic Information

Description
Recombinant Human CaMKII delta/CAMK2D Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Ala2-Ile499) of Human CAMK2D (Accession #Q13557) fused with a N-GST tag.

Activity
The activity of CAMK2D is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -70℃

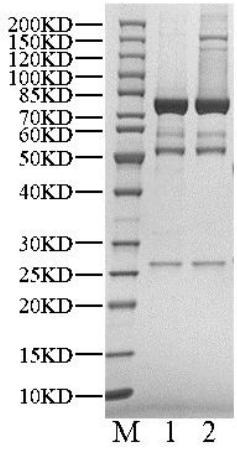
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

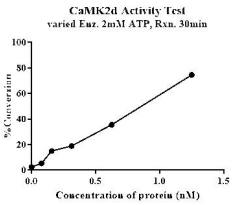
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Validation Data



Recombinant Human CaMKII delta/CAMK2D Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



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