

CAMK2D recombinant protein

Recombinant CAMK2D protein

CATALOG #
AAA60415

HOST
Baculovirus

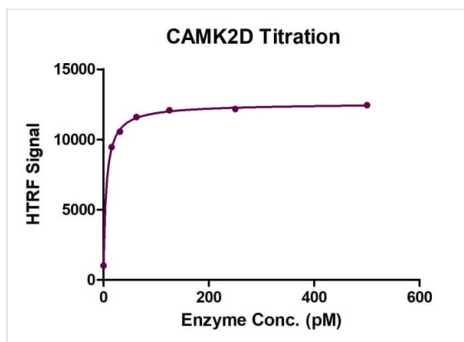
PRODUCT SYNONYMS

CAMK2D; Recombinant CAMK2D protein; Calcium dependent protein kinase type II subunit delta; CAMKD; CaM Kinase II Delta Subunit; CAMK2D recombinant protein

PRODUCT SPECIFICATIONS

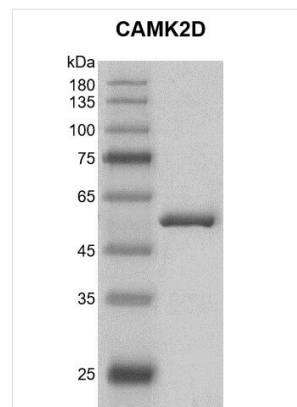
Host	Baculovirus
Form/Format	Recombinant CAMK2D protein is supplied in 25 mM HEPES pH 7.5, 300 mM NaCl, 20% glycerol, 0.04% Triton X-100, 0.5 mM TCEP.
Protein Species	Human
Protein Details	Recombinant CAMK2D protein was expressed in a baculovirus expression system as the full length protein (accession number NP_001212.2) with an N-terminal DYKDDDDK tag. The molecular weight of the protein is 57.52kDa.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

IMAGES



Application Data

HTRF assay for CAMK2D activity 1uM STK S1 substrate was incubated with different concentrations of CAMK2D protein in 10ul reaction system containing 1xEnzymatic Buffer, 5 mM MgCl₂, 500uM CaCl₂, 1uM Calmodulin, 1 mM DTT, 100uM ATP for 1 hour. The 10ul detection reagents containing anti-STK antibody (1:2) and SA-XL665 (1:100) diluted with 1x Detection Buffer were added and incubated with the reactions for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.



SDS-PAGE

Recombinant CAMK2D protein 10% SDS-PAGE Coomassie staining MW: 57.52kDa Purity: >95%

ADDITIONAL INFORMATION

Related Product Information for CAMK2D recombinant protein	CAMK2D (Calcium/calmodulin-dependent protein kinase type II subunit delta) is a Calcium/calmodulindependent protein kinase involved in the regulation of Ca2+ homeostatis and excitation-contraction coupling (ECC) in heart by targeting ion channels, transporters and accessory proteins involved in Ca2+ influx into the myocyte, Ca2+ release from the sarcoplasmic reticulum (SR), SR Ca2+ uptake and Na+ and K+ channel transport. Targets also transcription factors and signaling molecules to regulate heart function. In its activated form, is involved in the pathogenesis of dilated cardiomyopathy and heart failure. Contributes to cardiac decompensation and heart failure by regulating SR Ca2+ release via direct phosphorylation of RYR2 Ca2+ channel on 'Ser-2808'. In the nucleus, phosphorylates the MEF2 repressor HDAC4, promoting its nuclear export and binding to 14-3-3 protein, and expression of MEF2 and genes involved in the hypertrophic program.
Product Categories/Family for CAMK2D recombinant protein	Kinase; Recombinant Proteins

NCBI AND UNIPROT INFORMATION

Molecular Weight	57.52kDa
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/camk2d-recombinant-protein-baculovirus/60415>