# Human CAMK1D/CKLiK (GST Tag) recombinant protein

Catalog Number: 501793



#### **General Information**

#### **Gene Name Synonym**

Calcium/calmodulin-dependent protein kinase type 1D variant 2; Calcium/calmodulin-dependent protein kinase type 1D variant 3; cDNA FLJ76987, highly similar to Homo sapiens calcium/calmodulin-dependent protein kinase ID (CAMK1D), transcript variant 1

#### **Protein Construction**

A DNA sequence encoding the human CAMK1D (NP\_705718.1) (Met 1-Lys 385) was fused with the GST tag at the N-terminus.

## **Organism**

Human

## **Expression Host**

**Baculovirus-Insect Cells** 

# QC Testing

## **Activity**

The specific activity was determined to be 70 nmol/min/mg using Autocamtide-2 synthetic peptide (KKALRRQETVDAL-amide) as substrate (see Activity Assay Protocol)

## **Purity**

> 96 % as determined by SDS-PAGE

#### **Endotoxin**

 $< 1.0 \; EU \; per \; \mu g$  of the protein as determined by the LAL method

## **Stability**

Samples are stable for up to twelve months from date of receipt at -70°C

#### Predicted N terminal

Met.

#### **Molecular Mass**

The recombinant human CAMK1D/GST chimera consists of 610 amino acids and predicts a molecular mass of 69 kDa. It migrates as an approximately 60 kDa band in SDS-PAGE under reducing conditions.

#### **Formulation**

Supplied as sterile 50mM Tris, 100mM NaCl, 0.5mM Reduced Glutathione, pH 8.0

- 1. 5 % trehalose and mannitol are added as protectants before lyophilization.
- 2. Please contact us for any concerns or special requirements.

# **Usage Guide**

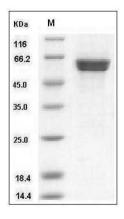
#### **Storage**

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

## Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

#### **SDS-PAGE**



 $\begin{array}{l} Human \; CAMK1D \; / \; CKLiK \; Protein \; (GST \; Tag) \; SDS-PAGE \end{array}$