

Product datasheet

Recombinant human CAMK1G protein ab51400

2 Images

Overview

<b>Product name</b>	Recombinant human CAMK1G protein
<b>Protein length</b>	Protein fragment

Description

<b>Nature</b>	Recombinant
<b>Source</b>	Baculovirus infected Sf9 cells
<b>Amino Acid Sequence</b>	
<b>Species</b>	Human
<b>Amino acids</b>	1 to 330

Specifications

Our [Abpromise guarantee](#) covers the use of **ab51400** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Biological activity</b>	Specific activity was determined to be 788 nmol/min/mg.
<b>Applications</b>	SDS-PAGE Functional Studies
<b>Form</b>	Liquid
<b>Additional notes</b>	<a href="#">ab188554</a> (CaMKII peptide) can be utilized as a substrate for assessing Kinase activity This product was previously labelled as CaMKI gamma

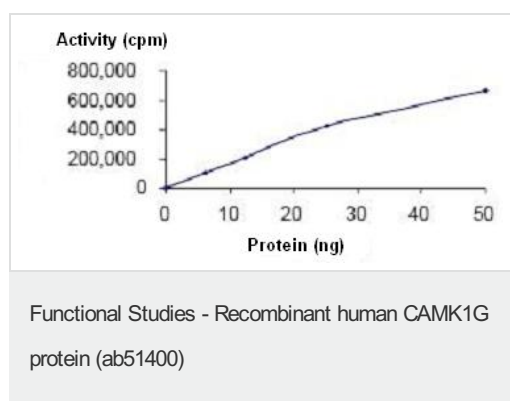
Preparation and Storage

<b>Stability and Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.0038% EGTA, 0.00174% PMSF, 0.00385% DTT, 0.79% Tris HCl, 0.00292% EDTA, 25% Glycerol, 0.87% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.
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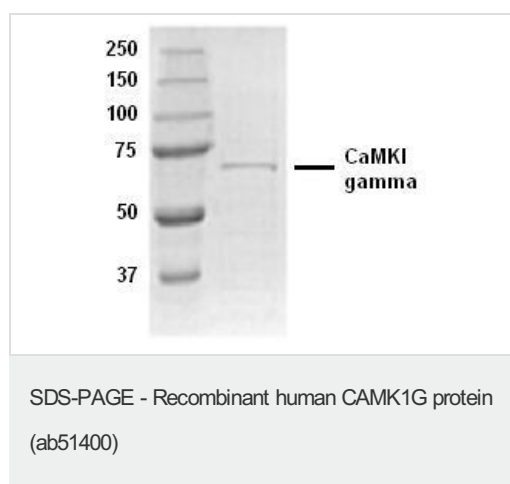
## General Info

<b>Function</b>	Calcium/calmodulin-dependent protein kinase belonging to a proposed calcium-triggered signaling cascade. In vitro phosphorylates transcription factor CREB1.
<b>Tissue specificity</b>	Mainly expressed in brain with small amounts in skeletal muscles, kidney, spleen and liver. Strongly expressed in forebrain neocortex, striatum and limbic system.
<b>Sequence similarities</b>	Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. CaMK subfamily. Contains 1 protein kinase domain.
<b>Domain</b>	The autoinhibitory domain overlaps with the calmodulin binding region and interacts in the inactive folded state with the catalytic domain as a pseudosubstrate.
<b>Post-translational modifications</b>	May be prenylated on Cys-473.
<b>Cellular localization</b>	Cytoplasm. Golgi apparatus membrane. Cell membrane.

## Images



Kinase activity assay. Specific activity 788 nmol/min/mg.



Recombinant human CAMK1G (with proprietary tag) molecular weight 69 kDa.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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