

Product datasheet

Recombinant human CAMK1G protein ab101503

[2 Images](#)

Description

Product name	Recombinant human CAMK1G protein
Biological activity	The Specific activity of ab101503 was determined to be 820 nmol/min/mg.
Purity	> 85 % Densitometry. The purity was determined to be >85% by densitometry. Affinity purified.
Expression system	Baculovirus infected insect cells
Accession	Q96NX5
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Predicted molecular weight	80 kDa including tags
Amino acids	1 to 476

Specifications

Our [Abpromise guarantee](#) covers the use of **ab101503** in the following tested applications.

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

Applications	Western blot Functional Studies SDS-PAGE
Form	Liquid
Additional notes	This product was previously labelled as CaMKI gamma

Preparation and Storage

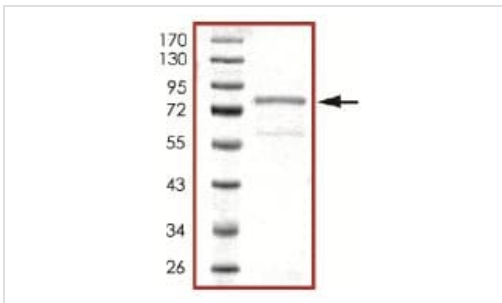
Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.307% Glutathione, 0.00174% PMSF, 0.00385% DTT, 0.79% Tris HCl, 0.00292% EDTA, 25% Glycerol (glycerin, glycerine), 0.87% Sodium chloride
------------------------------	--

This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

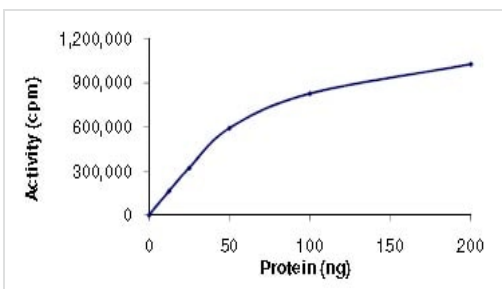
Function	Calcium/calmodulin-dependent protein kinase belonging to a proposed calcium-triggered signaling cascade. In vitro phosphorylates transcription factor CREB1.
Tissue specificity	Mainly expressed in brain with small amounts in skeletal muscles, kidney, spleen and liver. Strongly expressed in forebrain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

Images



SDS-PAGE analysis of ab101503.

SDS-PAGE - Recombinant human CAMK1G protein (ab101503)



The Specific activity of ab101503 was determined to be 820 nmol/min/mg.

Functional Studies - Recombinant human CAMK1G protein (ab101503)

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors