

Datasheet for ABIN7558097
CAMK2N1 Protein (AA 1-78) (Fc Tag)



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Overview

Quantity:	1 mg
Target:	CAMK2N1
Protein Characteristics:	AA 1-78
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CAMK2N1 protein is labelled with Fc Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Camk2n1 Protein expressed in mammalien cells.
Sequence:	MSEVLPYGDE KLSPLYGDGGD VGQIFSCRLQ DTNNFFGAGQ SKRPPKLGQI GRSKRVVIED DRIDDVLKTM TDKAPPGV Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.
Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.• Protein expressed in mammalien cells and purified in one-step affinity chromatography• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.• State-of-the-art algorithm used for plasmid design (Gene synthesis). <p>This protein is a made-to-order protein and will be made for the first time for your order. Our</p>

Product Details

experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity: > 90 % as determined by Bis-Tris Page, Western Blot

Grade: custom-made

Target Details

Target: CAMK2N1

Alternative Name: Camk2n1 ([CAMK2N1 Products](#))

Background: Calcium/calmodulin-dependent protein kinase II inhibitor 1 (calcium/calmodulin-dependent protein kinase II inhibitor alpha) (mCaMKIINalpha),FUNCTION: Potent and specific inhibitor of CaM-kinase II (CAMK2) (By similarity). Plays a role in the maintenance of long-term retrieval-induced memory in response to contextual fear (PubMed:28642476). Modulates blood pressure and vascular reactivity via regulation of CAMK2 activity in addition to regulation of left ventricular mass (By similarity). Mediates the NLRP3 inflammasome in cardiomyocytes via acting as an inhibitor of the MAPK14/p38 and MAPK8/JNK pathways, thereby regulating ventricular remodeling and cardiac rhythm post-myocardial infarction (PubMed:33746041). Negatively effects insulin sensitivity and promotes lipid formation in adipose tissues independent of CAMK2 signaling (PubMed:31327268). {ECO:0000250|UniProtKB:Q9JI15, ECO:0000269|PubMed:28642476, ECO:0000269|PubMed:31327268, ECO:0000269|PubMed:33746041}.

Molecular Weight: 8.5 kDa

UniProt: [Q6QWF9](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Application Details

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months