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Datasheet for ABIN7319676 **CAMK1 Protein (His tag)**

Overview

Quantity:	50 µg
Target:	CAMK1
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CAMK1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human CAMK1/CaMKI-alpha Protein (His Tag)
Sequence:	Met1-Leu370
Characteristics:	Recombinant Human CAMK1 is produced by our Mammalian expression system and the target gene encoding Met1-Leu370 is expressed with a 6His tag at the C-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	CAMK1
Alternative Name:	CAMK1 (CAMK1 Products)
Background:	Background: Calcium/Calmodulin-Dependent Protein Kinase Type 1 (CAMK1) belongs to the protein kinase superfamily, CAMK Ser/Thr protein kinase family, and CaMK subfamily. CAMK1 contains one protein kinase domain and widely expressed. CAMK1 is phosphorylated by

Target Details

CaMKK1 and CaMKK2 on Thr-177. CAMK1 regulates transcription activators activity, cell cycle, hormone production, cell differentiation, actin filament organization, and neurite outgrowth.

CAMK1 plays a role in K⁺ and ANG2-mediated regulation of the aldosterone synthase (CYP11B2) to produce aldosterone in the adrenal cortex.

Synonym: Calcium/Calmodulin-Dependent Protein Kinase Type 1, CaM Kinase I, CaM-KI, CaM Kinase I Alpha, CaMKI-Alpha, CAMK1

Molecular Weight: 42.3 kDa

UniProt: [Q14012](#)

Pathways: [Myometrial Relaxation and Contraction](#), [Regulation of Muscle Cell Differentiation](#), [Smooth Muscle Cell Migration](#)

Application Details

Comment: 42 kDa

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.