

Datasheet for ABIN7318225 Calmodulin 1 Protein (Calm1)



Quertique	
Overview	
Quantity:	50 µg
Target:	Calmodulin 1 (Calm1)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Product Details	
Purpose:	Recombinant Human Calmodulin/CALM1 Protein
Sequence:	Met 1-Lys149
Characteristics:	Recombinant Human Calmodulin is produced by our E.coli expression system and the target
	gene encoding Met1-Lys149 is expressed.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Target Details	
Target:	Calmodulin 1 (Calm1)
Alternative Name:	Calmodulin/CALM1 (Calm1 Products)
Background:	Background: Calmodulin (CaM) is a multifunctional intermediate calcium-binding messenger
	protein expressed in all eukaryotic cells. It is an intracellular target of the secondary messenger
	Ca2+, and the binding of Ca2+ is required for the activation of Calmodulin. Once bound to Ca2+,

Calmodulin acts as part of a calcium signal transduction pathway by modifying its interactions

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	with various target proteins such as kinases or phosphatases. Calmodulin is a small, highly
	conserved protein that is 148 amino acids long. The protein has two approximately
	symmetrical globular domains each containing a pair of EF-hand motifs (the N- and C-domain)
	separated by a flexible linker region for a total of four Ca2+ binding sites. Calmodulin mediates
	many crucial processes such as inflammation, metabolism, apoptosis, smooth muscle
	contraction, intracellular movement, short-term and long-term memory, and the immune
	response. Calmodulin is expressed in many cell types and can have different subcellular
	locations, including the cytoplasm, within organelles, or associated with the plasma or organelle
	membranes, but it is always found intracellularly.
	Synonym: Calmodulin, CaM, CALM1, CALM, CAM, CAM1, CALM2, CAM2, CAMB, CALM3,
	CALML2, CAM3, CAMC, CAMIII
Molecular Weight:	16.8 kDa
UniProt:	P62158
Pathways:	cAMP Metabolic Process, Myometrial Relaxation and Contraction, G-protein mediated Events,
	Interaction of EGFR with phospholipase C-gamma, Phototransduction, BCR Signaling

Application Details

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 50 mM NH4HCO3, pH 8.0 .
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.

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