

Recombinant Full Length Human CASQ1 Protein, GST-tagged

Cat. No. CASQ1-2749HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CASQ1 full-length ORF (NP_001222.2, 1 a.a. - 390 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	390 amino acids
Description	This gene encodes the skeletal muscle specific member of the calsequestrin protein family. Calsequestrin functions as a luminal sarcoplasmic reticulum calcium sensor in both cardiac and skeletal muscle cells. This protein, also known as calmitine, functions as a calcium regulator in the mitochondria of skeletal muscle. This protein is absent in patients with Duchenne and Becker types of muscular dystrophy. [provided by RefSeq, Jun 2013]
Molecular Mass	70.9 kDa
AA Sequence	MGPRAVPGLRLALLLLVLGTPKSGVQGGEGLDPEYDGVDRVINVNAKNYKNVFK KYEVLALLYHEPPEDDKASQRQFEMEELILELAAQVLEDKGVGFGLVDSEKDAAVAK KLGLTEVDSMYVFKGDEVIEYDGEFSADTIVEFLLDVLEDPVELIEGERELQAFENIED EIKLIGYFKSKDSEHYKAFEDAAEEFHPYIPFFATFDSKVAKKLTCLKNEIDFYAEAFME EPVTIPDKPNSEEEIVNFVEEHRRSTLRKLKPESMYETWEDDMDGIHIVAFEEEADP DGFEFLETLKAVAQDNTENPDLSIIWIDPDDFLLVPYWEKTFDIDLSAPQIGVVNVTD ADSVWMEMDDEEDLPAAEELEDWLEDVLEGEINTEDDDDDDDDDD

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Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
GENE INFORMATION	
Gene Name	CASQ1 calsequestrin 1 (fast-twitch, skeletal muscle) [Homo sapiens]
Official Symbol	CASQ1
Synonyms	CASQ1; calsequestrin 1 (fast-twitch, skeletal muscle); CASQ; calsequestrin-1; calmitine; calsequestrin 1; fast twitch; skeletal muscle; PDIB1; calmitin; calsequestrin, skeletal muscle isoform;
Gene ID	844
mRNA Refseq	NM_001231
Protein Refseq	NP_001222
MIM	114250
UniProt ID	P31415