

Recombinant Human CASQ1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CASQ1-5887H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CASQ1 MS Standard C13 and N15-labeled recombinant protein (NP_001222) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	44.5 kDa
AA Sequence	MGPRAVPGLRLALLLLVLGTPKSGVQGQEGLDPEYDGVDRVINVNAKNYKNVFK KYEVLALLYHEPPEDDKASQRQFEMEELILELAAQVLEDKGVGFGLVDSEKDAAVAK KLGLTEVDSMYVFKGDEVIEYDGEFSADTIVEFLLDVLEDPVELIEGERELQAFENIED EIKLIGYFKSKDSEHYKAFEDAAEEFHYPYIPFFATFDSKVAKKLTCLKNEIDFYEAFME EPVTIPDKPNSEEEIVNFVEEHRRSTLRKLKPESMYETWEDDMDGIHIVAFEEEADP DGFEFLETLKAVAQDNTENPDLSIIWIDPDDFLLVPYWEKTFDIDLSAPQIGVVNVT ADSVWMEMDDEEDLPSEEELEDWLEDVLEGEINTEDDDDDDDDDTRTRPLEQKLISE EDLAANDILDYKDDDDKV

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

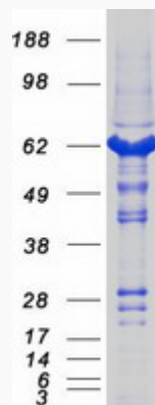
Gene Name	CASQ1 calsequestrin 1 [Homo sapiens (human)]
Official Symbol	CASQ1
Synonyms	CASQ1; calsequestrin 1 (fast-twitch, skeletal muscle); CASQ; calsequestrin-1; calmitine; calsequestrin 1; fast twitch; skeletal muscle; PDIB1; calmitin; calsequestrin, skeletal muscle isoform;
Gene ID	844
mRNA Refseq	NM_001231
Protein Refseq	NP_001222
MIM	114250
UniProt ID	P31415

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SDS-PAGE



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