

Recombinant Human CASQ1 Protein, His-tagged

Cat. No. CASQ1-627H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CASQ1 Protein (Gln35-Glu249) with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Gln35-Glu249
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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 28.4 kDa; Accurate Molecular Mass: 28 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for

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

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

48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

Storage

Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.

Storage Buffer

PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.

Reconstitution

Reconstitute in PBS or others.

GENE INFORMATION

Gene Name

CASQ1 calsequestrin 1 (fast-twitch, skeletal muscle) [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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