

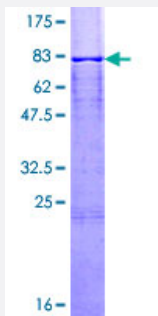
Full-Length

CASQ1 (Human) Recombinant Protein (P01)

Catalog # H00000844-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human CASQ1 full-length ORF (NP_001222.2, 1 a.a. - 390 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MGPRAVPGLRLALLLLVLGTPKSGVQGQEGLDPEYDGVDRVINVNAKNYKNVFKKYEVLALLY
HEPPEDDKASQRQFEMEELILELAAQVLEDKGVGFGLVDSEKDAAVAKKLGLTEVDSMYVFKG
DEVIEYDGEFSADTIVEFLLDVLEDPVELIEGERELQAFENIEDEIKLIGYFKSKDSEHYKAFEDAAE
EFHPYIPFFATFDSKVAKKLTLKLNEIDFYEAFMEEPVTIPDKPNSEEEVNFVEEHRSTLRKLKPE
SMYETWEDDMDGIHIVAFEEADPDGFEFLETLKAVAQDNTENPDLSIMIDPDDFPLLVPYWEKT
FDIDLSAPQIGVVNVTADSVWMEMDDEEDLPsAELEDWLEDVLEGEINTEDDDDDDDDD

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

70.9

Interspecies Antigen Sequence

Mouse (95); Rat (96)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — CASQ1

Entrez GeneID[844](#)**GeneBank Accession#**[NM_001231.3](#)**Protein Accession#**[NP_001222.2](#)**Gene Name**

CASQ1

Gene Alias

CASQ, PDIB1

Gene Description

calsequestrin 1 (fast-twitch, skeletal muscle)

Omim ID[114250](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

The protein encoded by this gene is a mitochondrial calcium-binding protein located in the luminal space of the terminal cisternae of the sarcoplasmic reticulum. The protein binds and putatively stores calcium ions. The protein is absent in patients with Duchenne and Becker types of muscular dystrophy. [provided by RefSeq]

Other Designations

calmitine|calsequestrin 1

Disease

- [Diabetes Mellitus](#)

- [Dyslipidemias](#)
- [Genetic Predisposition to Disease](#)
- [Obesity](#)