



# Recombinant Human Calsequestrin-1 (CASQ1)

<b>Product Code</b>	CSB-EP004556HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P31415
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	<p>QEGLDF PEYDGVDRVI NVNAKKNYKNV FKKYEVLALL YHEPPEDDKA  SQRQFEMEEL ILELAAQVLE DKGVGFGFLVD SEKDAAVAKK LGLTEVDSMY  VFKGDEVIEY DGEFSADTIV EFLLDVLEDP VELIEGEREL QAFENIEDEI  KLIGYFKSKD SEHYKAFEDA AEEFHPYIPF FATFDSKVAK KLTLKLNEID  FYEAFMEEPV TIPDKPNSEE EIVNFVEEHR RSTLRKPKPE SMYETWEDDM  DGIHIVAFAE EADPDGFEFL ETLKAVAQDN TENPDLIIW IDPDDFPLL  PYWEKTFDID LSAPQIGVVN VTDADSVWME MDDEEDLPSA EELEDWLEDV  LEGEINTEDD DDDDDD</p>
<b>Source</b>	E.coli
<b>Target Names</b>	CASQ1
<b>Protein Names</b>	Recommended name: Calsequestrin-1 Alternative name(s): Calmitin Calsequestrin, skeletal muscle isoform
<b>Expression Region</b>	35-396
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	This protein 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.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
<b>Shelf Life</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.