



Recombinant Human Calsequestrin-1 (CASQ1)

Product Code	CSB-EP004556HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P31415
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	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 DGIHIVAF AE EADPDGFEFL ETLKAVAQDN TENPDLIIW IDPDDFPLLV PYWEKTFDID LSAPQIGVVN VTDADSVWME MDDEEDLPSA EELEDWLEDV LEGEINTEDD DDDDDD
Source	E.coli
Target Names	CASQ1
Protein Names	Recommended name: Calsequestrin-1 Alternative name(s): Calmitin Calsequestrin, skeletal muscle isoform
Expression Region	35-396
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	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.
Reconstitution	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.
Shelf Life	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.