



Recombinant Human Calsequestrin-2 (CASQ2)

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| Product Code | CSB-EP004557HU-B |
| Storage | Store at -20°C, for extended storage, conserve at -20°C or -80°C. |
| Uniprot No. | O14958 |
| Product Type | Recombinant Protein |
| Immunogen Species | Homo sapiens (Human) |
| Purity | >85% (SDS-PAGE) |
| Sequence | E EGLNFPTYDG KDRVVSLSEK NFKQVLKKYD LLCLYYHEPV SSDKVTQKQF QLKEIVLELV AQVLEHKAIG FVMVDAKKEA KLAKKLGFD EGSLYILKGD RTIEFDGEFA ADVLVEFLLD LIEDPVEIIS SKLEVQAFER IEDYIKLIGF FKSEDSEYYK AFEEAAEHFQ PYIKFFATFD KGVAKKLSLK MNEVDFYEPF MDEPIAIPNK PYTEEELVEF VKEHQRP TLR RLRPEEMFET WEDDLNGIHI VAFAEKSDPD GYEFLEILKQ VARDNTDNP D LSILWIDPDD FPLL VAYWEK TFKIDLFRPQ IGVVNVTDAD SVWMEIPDDD DLPTAE ELED WIEDVLSGKI NTEDDDEDDD DDDNSDEEDN DDSDDDDDE |
| Source | E.coli |
| Target Names | CASQ2 |
| Protein Names | Recommended name: Calsequestrin-2 Alternative name(s): Calsequestrin, cardiac muscle isoform |
| Expression Region | 20-399 |
| 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 specifies the cardiac muscle family member of the calsequestrin family. Calsequestrin is localized to the sarcoplasmic reticulum in cardiac and slow skeletal muscle cells. The protein is a calcium binding protein that stores calcium for muscle function. Mutations in this gene cause stress-induced polymorphic ventricular tachycardia, also referred to as catecholaminergic polymorphic ventricular tachycardia 2 (CPVT2), a disease characterized by bidirectional ventricular tachycardia that may lead to cardiac arrest. |
| 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. |