Recombinant human Calsequestrin 2/CASQ2 protein

Catalog Number: ATGP0502

PRODUCT INFORMATION

Expression system
E.coli

Domain
20-399aa

UniProt No.
O14958

NCBI Accession No.
NP_001223

Alternative Names
Cardiac muscle calsequestrin 2, PDIB2

PRODUCT SPECIFICATION

Molecular Weight
48.4 kDa (417aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT

Purity
> 95% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
Calsequestrin2 is a calcium-binding protein of the sarcoplasmic reticulum. The protein helps hold calcium in the cisterna of the sarcoplasmic reticulum after a muscle contraction, even though the concentration of calcium in the sarcoplasmic reticulum is much higher than in the cytosol. It also helps sarcoplasmic reticulum store an amazing amount of calcium ions. Recombinant Calsequestrin2 protein was expressed in E. coli and purified by using conventional chromatography techniques.

Recombinant human Calsequestrin 2/CASQ2 protein

Catalog Number: ATGP0502

Amino acid Sequence

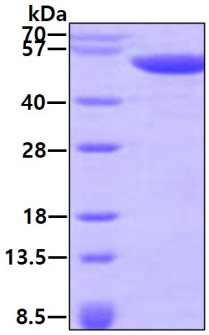
<MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRW>GSMEEG LNFPTYDGKD RVVSLSEKNF KQVLKKYDLL CLYYHEPVSS DKVTQKQFQL KEIVLELVAQ VLEHKAIGFV MVDAKKEAKL AKKLGFDEEG SLYILKGDRT IEFDGEFAAD VLVEFLLDLI EDPVEIISSK LEVQAFERIE DYIKLIGFFK SEDSEYYKAF EEAAEHFQPY IKFFATFDKG VAKKLSLKMN EVDFYEPFMD EPIAIPNKPY TEEELVEFVK EHQRPTLRRL RPEEMFETWE DDLNGIHIVA FAEKSDPDGY EFLEILKQVA RDNTDNPDLS ILWIDPDDFP LLVAYWEKTF KIDLFRPQIG VVNVTDADSV WMEIPDDDDL PTAEELEDWI EDVLSGKINT EDDDEDDDDD DNSDEEDNDD SDDDDDE

General References

Wang S, et al. (1998) Nat. Struct. Biol.. 5(6):476-83.
Lahat H, et al. (2001) Am J Hum Genet. 69(6):1378-84.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.