

AR09401PU-N

Human Calsequestrin-2 (20-399, His-tag) - Purified

Alternate names:

CASQ2, Calsequestrin cardiac muscle isoform

Quantity:

0.1 mg

Concentration:

0.5 mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:

[O14958](#)

NCBI:

[NP_001223](#)

GeneID:

[845](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >95% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1 M NaCl, 1 mM DTT

Description:

Recombinant Calsequestrin2 protein, fused to His-tag, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMEEG LNFPTYDGKD RRVSLSEKNF
KQVLKKYDLL CLYYHEPVSS DKVTQKQFQL KEIVLELVAQ VLEHKAIGFV MVDAKKEAKL
AKKLGFDDEG SLYILKGDRT IEFDGFEAAD VLVEFLDLI EDPVEIISK LEVQAFERIE
DYIKLIGFFK SEDSEYYKAF EEAAEHFQPY IKFFATFDKG VAKKLSLKMN EVDFYEPFMD
EPIAIPNKPYP TEEELVEFVK EHQRPTLRRL RPEEMFETWE DDLNGIHIVA FAEKSDPDGY
EFLEILKQVA RDNTDNPDL ILWIDPDDFP LLVAYWEKTF KIDLFRPQIG VVNVTDAADSV
WMEIPDDDDL PTAAELEDWI EDVLSGKINT EDDDEDDEED DNSDEEDNDD SDDDDDE

Molecular weight: 48.4 kDa (417 aa)

Storage:

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

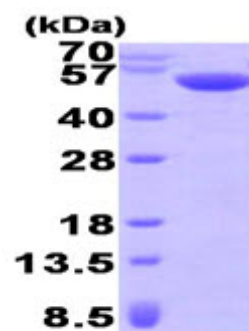
Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

Lahat H, et al. (2001) Am J Hum Genet. 69(6):1378-84.

Pictures:



15% SDS-PAGE (3ug)

Recombinant human Calsequestrin 2,
20-399 aa, His-tagged: 15% SDS-PAGE (3
μg)

