

Recombinant human RCN1 protein

Catalog Number: ATGP0672

PRODUCT INFORMATION

Expression system

E.coli

Domain

30-331aa

UniProt No.

Q15293

NCBI Accession No.

NP_002892

Alternative Names

Reticulocalbin-1, PIG20, RCAL, RCN, Reticulocalbin-1, Reticulocalbin 1, Reticulocalbin1

PRODUCT SPECIFICATION

Molecular Weight

40.4 kDa (341aa) confirmed by MALDI-TOF (Real Molecular weight on SDS-PAGE will be shift up)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT, 100mM NaCl

Purity

> 85% 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

Reticulocalbin 1 (RCN1) is a calcium-binding protein. It binds calcium and may regulate calcium-dependent activities in the endoplasmic reticulum lumen or post-ER compartment. The protein contains six conserved regions with similarity to a high affinity Ca (+2) -binding motif, the EF-hand. High conservation of amino acid residues outside of these motifs, in comparison to mouse reticulocalbin, is consistent with a possible biochemical function besides that of calcium binding. In human endothelial and prostate cancer cell lines this protein localizes to the plasma membrane. Recombinant human RCN1 protein, fused to His-tag at N-terminus, was

Recombinant human RCN1 protein

Catalog Number: ATGP0672

expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

<MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGS>ELEK PTVRKERVVR PDSELGERPP EDNQSFYDHEAFLGKEDSK TFDQLTPDES KERLGKIVDR IDNDGDGFVT TEELKTWIKR VQKRYIFDNV AKVWKDYDRD KDDKISWEEYKQATYGYLLG NPAEFHDSSD HHTFKKMLPR DERRFKAADL NGDLTATREE FTAFLHPEEF EHMKEIVVLE TLEDIDKNGDGFVDQDEYIA DMFSHEENG EPDWVLSERE QFNEFRDLNK DGKLDKDEIR HWILPQDYDH AQAEARHLVY ESDKNKDEKL TKEEILENWN MFVGSQATNY GEDLTKNHDE L

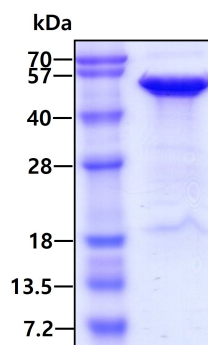
General References

Tachikui., et al. (1997) M. J. Biochem. 121(1):145-9.

Gloria K., et al. (2006) Plant Physiology 141:1617-1629

DATA

SDS-PAGE



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