Recombinant human Cornulin/CRNN protein

Catalog Number: ATGP0497

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-495aa

UniProt No.
Q9UBG3

NCBI Accession No.
AAH30807

Alternative Names
Cornulin, DRC1, PDRC1, SEP53, Cornulin 53 kDa putative calcium binding protein, 53 kDa squamous epithelial induced stress protein, 58 kDa heat shock protein, C1orf10, Squamous epithelial heat shock protein 53, Tumor related protein.

PRODUCT SPECIFICATION

Molecular Weight
55.7 kDa (515aa)

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

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
CRNN is a member of the 'fused gene' family of proteins, which contain N-terminus EF-hand domains and multiple tandem peptide repeats. It contains two EF-hand Ca2+ binding domains in its N-terminus and two glutamine- and threonine-rich 60 amino acid repeats in its C-terminus. This protein, also Known as Survival factor that participates in the clonogenicity of squamous esophageal epithelium cell lines, attenuates

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deoxycholic acid (DCA) -induced apoptotic cell death and release of calcium. When overexpressed in oral squamous carcinom cell lines, regulates negatively cell proliferation by the induction of G1 arrest. Recombinant CRNN protein was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

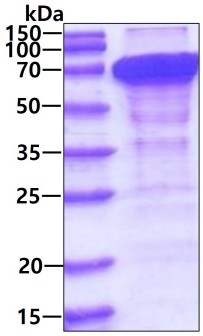
<MGSSHHHHHH SSGLVPRGSH> MPQLLQNING IIEAFRRYAR TEGNCTALTR GELKRLLEQE FADVIVKPHD PATVDEVLRL LDEDHTGTVE FKEFLVLVFK VAQACFKTLS ESAEGACGSQ ESGSLHSGAS QELGEGQRSG TEVGRAGKGQ HYEGSSHRQS QQGSRGQNRP GVQTQGQATG SAWVSSYDRQ AESQSQERIS PQIQLSGQTE QTQKAGEGKR NQTTEMRPER QPQTREQDRA HQTGETVTGS GTQTQAGATQ TVEQDSSHQT GRTSKQTQEA TNDQNRGTET HGQGRSQTSQ AVTGGHAQIQ AGTHTQTPTQ TVEQDSSHQT GSTSTQTQES TNGQNRGTEI HGQGRSQTSQ AVTGGHTQIQ AGSHTETVEQ DRSQTVSHGG AREQGQTQTQ PGSGQRWMQV SNPEAGETVP GGQAQTGAST EPGRQEWSST HPRRCVTEGQ GDRQPTVVGE EWVDDHSRET VILRLDQGNL HTSVSSAQGQ DAAQSEEKRG ITARELYSYL RSTKP

General References

Little TJ., et al. (2007) PLoS One. 2(10):e1003.
Darragh J., et al. (2006) FEBS J. 273:1930-1947

DATA

SDS-PAGE



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