

Recombinant Human CRNN Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50218

Size: 10ug, 100ug

Protein Name: Cornulin (53 kDa putative calcium-binding protein) (53 kDa squamous epithelial-induced stress protein) (58 kDa heat shock protein) (Squamous epithelial heat shock protein 53) (Tumor-related protein)

Synonym: CRNN, C1orf10, DRC1, PDRC1, SEP53

UniProt ID: Q9UBG3

UniProt Link: www.uniprot.org/uniprotkb/Q9UBG3/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 495 AA

Molecular Weight: 54 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MPQLLNQINGIIEAFRRYARTEGNCTALTRGELKRLLEQEFADVIVKPHDPATVDEVLRLLDEDHTGT
VEFKEFLVLVFKVAQACFKTLSESAEGACGSQESGSLHSGASQELGEGQSRSGTEVGRAGKGQHYE
GSSHRQSQQGSRGQNRPGVQTGGQATGSAWVSSYDRQAESQSQERISPIQLSGQTEQTQKAG
EGKRNTTTEMRPERQPQTREQDRAHQTGGETVTGSGTQTQAGATQTVEQDSSHQTGRTSKQTQEA
TNDQNRGTETHGQGRSQTSAVTGGHAQIQAGTHTQTPTQTVEQDSSHQTGSTSTQTQESTNGQ
NRGTEIHGQGRSQTSAVTGGHTQIQAGSHTETVEQDRSQTVSHGGAREQGQTQTQPGSGQRW
MQVSNPEAGETVPGGQAQTGASTESGRQEWSSTHPRRCVTEGQGDRQPTVVGEEWVDDHSRET
VILRLDQGNLHTSVSSAQGQDAAQSEEKRGITARELYSYLRSTKP

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Cornulin (53 kDa putative calcium-binding protein) (53 kDa squamous epithelial-induced stress protein) (58 kDa heat shock protein) (Squamous epithelial heat shock protein 53) (Tumor-related protein) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Promotes cell proliferation, G1/S cell cycle progression and induces expression of the cell cycle regulator CCND1 (PubMed:30009832). Regulates proliferation induced by pro-inflammatory cytokine response via activation of NFκB1 and PI3K/AKT signaling pathways (PubMed:30009832).

Subcellular Localization: Cytoplasm . Note=Does not colocalize with TGM1.

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.