
Product Data Sheet

Product Name: CRNN Human

Cat. No.: GP23231

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

Synonyms SEP53; DRC1; PDRC1; Cornulin; Tumor-related protein; Squamous epithelial heat shock protein 53; 53 kDa squamous epithelial-induced stress protein; 58 kDa heat shock protein; 53 kDa putative calcium-binding protein; CRNN; C1orf10.

Amino Acid Sequence
 MGSSHHHHH SSGLVPRGSH MPQLLQNING IIEAFRRYAR TEGNCTALTR
 GELKRLLEQE FADVIVKPHD PATVDEVLRLL LDEDHTGTVE FKEFLVLVFK
 VAQACFKTLS ESAEGACGSQ ESGSLHSGAS QELGEGQRSQ TEVGRAGKGG
 HYGSSHRQS QQGSRGQNRP GVQTQGQATG SAWVSSYDRQ AESQSQERIS
 PQIQLSGQTE QTQKAGEGKR NQTTEMRPER QPQTREQDRA HQTGETVTGS
 GTQTQAGATQ TVEQDSSHQT GRTSKQTQEA TNDQNRGTET HGQGRSQTTSQ
 AVTGGHAQIQ AGTHTQTPTQ TVEQDSSHQT GSTSTQTQES TNGQNRGTEI
 HGQGRSQTTSQ AVTGGHTQIQ AGSHTETVEQ DRSQTVSHGG AREQGQTQTQ
 PGSGQRWMQV SNPEAGETVP GGQAQTGAST EPGRQEWSST HPRRCVTEGQ
 GDRQPTVVGE EWVDDHSRET VILRLDQGNL HTSVSSAQQG DAAQSEEKRG
 ITARELYSYL RSTKP.

Formulation The CRNN solution contains 20mM Tris-HCl pH-8 and 10% glycerol.

Introduction

CRNN is part of the "fused gene" family of proteins, which enclose N-terminus EF-hand domains and multiple tandem peptide repeats. CRNN 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. CRNN, also known as SEP53, which participates in the mucosal/epithelial immune response and epidermal differentiation. CRNN is a survival factor that participates in the clonogenicity of squamous esophageal epithelium cell lines, attenuates deoxycholic acid (DCA)-induced apoptotic cell death and discharge of

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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calcium. When CRNN is over expressed in oral squamous carcinoma cell lines, it regulates negatively cell proliferation by the induction of G1 arrest.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze-thaw cycles.

Background

CRNN Human Recombinant fused to 20 amino acid His Tag at N-terminal produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 515 amino acids (1-495 a.a.) and having a molecular mass of 55.7 kDa. The CRNN is purified by proprietary chromatographic techniques.

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