

Recombinant Protein Technical Manual Recombinant Human Cornulin/CRNN Protein (His Tag) RPES1056

Product Data:

Product	SKU:	RPES1056
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Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: Q9UBG3

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Protein	

Molecular Mass:	17.5 kDa
AP Molecular Mass:	15 kDa
Tag:	N-6His
Bio-activity:	
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin:	< 1.0 EU per μg as determined by the LAL method.
Storage:	Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping:	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation:	Lyophilized from a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, pH 7.2.
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	
Synonyms:	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; CRNN; C1orf10; DRC1; PDRC1; SEP53

Sequence: Met 1-Ser140

Background:

Cornulin is a member of the fused gene family of molecular chaperones. Human Cornulin contains Nterminus EF-hand domains and Ca2+ binding domains, and two glutamine- and threonine-rich 60 amino acid repeats in its C-terminus. Cornulin involves in the mucosal/epithelial immune response and epidermal differentiation. Cornulin is a survival factor that participates in the clonogenicity of squamous esophageal epithelium cell lines, attenuates deoxycholic acid (DCA)-induced apoptotic cell death and release of calcium. When Cornulin is overexpressed in oral squamous carcinoma cell lines, it regulates negatively cell proliferation by the induction of G1 arrest.