



# Recombinant Protein Technical Manual

## Recombinant Human CRELD1 Protein (His Tag)

RPES5135

### Product Data:

**Product SKU:** RPES5135

**Size:** 50µg

**Species:** Human

**Expression host:** HEK293 Cells

**Uniprot:** NP\_001070883.1

### Protein Information:

**Molecular Mass:** 37.4 kDa

**AP Molecular Mass:** 51 kDa

**Tag:** C-His

**Bio-activity:**

**Purity:** > 95 % 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 sterile PBS, pH 7.4

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** AVSD2;CIRRIN

## Immunogen Information:

**Sequence:** Met 1-Glu362

## Background:

CRELD1 is a transmembrane glycoprotein. Epidermal growth factor(EGF)-like domain exists in CRELD1. EGF-like repeats are a class of cysteine-rich domains that mediate interactions between proteins of diverse function. EGF domains are found in proteins that are either completely secreted or have transmembrane regions that tether the protein to the cell surface. CRELD1 contains a 333 amino acid acid (aa) extracellular domain (ECD), two tandem transmembrane segments, and a second ECD of 15 aa. Defects in CRELD1 may cause susceptibility to atrioventricular septal defect type 2 which results in a persistent common atrioventricular canal.