



Recombinant Protein Technical Manual
Recombinant Human Calumenin Protein (aa 1-311,
His Tag)
RPES5017

Product Data:

Product SKU: RPES5017

Size: 20µg

Species: Human

Expression host: HEK293 Cells

Uniprot: O43852

Protein Information:

Molecular Mass: 35.9 kDa

AP Molecular Mass: 46-52 kDa

Tag: C-His

Bio-activity:

Purity: > 90 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg of the protein 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: Calumenin; Crockalbin; IEF SSP 9302; CALU

Immunogen Information:

Sequence: Met 1-Arg311

Background:

Calumenin belongs to the CREC family. It contains 6 EF-hand domains. Calumenin is expressed in skeletal muscle (at protein level). Calumenin interacts with GGCX and RYR1 in the presence of calcium ions, but not in the presence of EDTA. Calumenin is involved in regulation of vitamin K-dependent carboxylation of multiple N-terminal glutamate residues. It seems to inhibit gamma-carboxylase GGCX. Calumenin also binds 7 calcium ions with a low affinity and may modulate calcium release from the sarcoplasmic reticulum.