

Recombinant Human Calumenin/CALU Protein

Catalog No.: RP02945

Sequence Information

Species **Gene ID**
Human 813

Swiss Prot **Tags**
O43852 C-His

Synonyms

CALU, calumenin, Calumenin, calumenin

Product Information

Source **Purification**
HEK293 cells ≥ 80 % as
determined by
SDS-PAGE.

Calculated MW **Observed MW**
36 kDa 40-55 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.

Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Calumenin is a secreted calcium-binding protein that belongs to the CREC family. Calumenin contains six EF-hand domains and is expressed at high levels in the heart, placenta and skeletal muscle. Human Calumenin is synthesized as a 315 amino acid precursor that contains a 19 amino acid signal sequence, and a 296 amino acid mature chain. Calumenin localizes to the endoplasmic reticulum (ER) and sarcoplasmic reticulum (SR) of mammalian tissues which plays a role in ER functions as protein folding and sorting. Calumenin is involved in the regulation of vitamin K-dependent carboxylation of multiple N-terminal glutamate residues. It seems to inhibit γ-carboxylase GGCX.

Basic Information

Description

Recombinant Human Calumenin/CALU Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Lys20-Phe315) of Human Calumenin/CALU (Accession #NP_001210.1) fused with a 6×His tag at the C-terminus.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

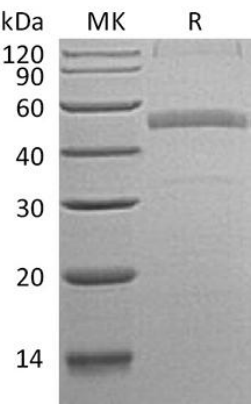
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Validation Data



Recombinant Human Calumenin/CALU Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.