

Recombinant Human Calumenin/CALU Protein

Catalog No.: RP03261 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	811	P27797

Tags

C-His

Synonyms

Calreticulin; CRP55; ERp60; HACBP; grp60; CALR; CRTC; cC1qR; HEL-S-99n; SSA

Product Information

Source	Purification
HEK293 cells	≥ 95% by SDS-PAGE; ≥ 90% by SEC-HPLC

Calculated MW	Observed MW
47.4 kDa	55-60 kDa

Endotoxin

< 1.0 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial 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.

Contact

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Background

Calreticulin is a calcium-binding chaperone that promotes folding, oligomeric assembly and quality control in the endoplasmic reticulum (ER) via the calreticulin/calnexin cycle. This lectin interacts transiently with almost all of the monoglucosylated glycoproteins that are synthesized in the ER. Calreticulin reduces the binding of androgen receptor to its hormone-responsive DNA element and inhibits androgen receptor and retinoic acid receptor transcriptional activities in vivo, as well as retinoic acid-induced neuronal differentiation.

Basic Information

Description

Recombinant Human Calumenin/CALU Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Ala413) of Human Calumenin/CALU (Accession #P27797) fused with His tag at the C-terminus.

Bio-Activity

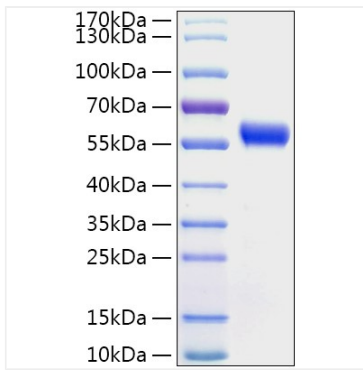
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human Calreticulin/CALR Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 55-60 kDa.