Recombinant Human Calreticulin protein ab91577

**Product name**  
Recombinant Human Calreticulin protein

**Expression system**  
Escherichia coli

**Accession**  
P27797

**Protein length**  
Protein fragment

**Animal free**  
No

**Nature**  
Recombinant

**Species**  
Human

**Tags**  
His tag N-Terminus

**Additional sequence information**  
His-tag on N-terminal with thrombin cleavage site.

**Applications**  
Western blot  
SDS-PAGE

**Form**  
Liquid

**Stability and Storage**  
Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.

**pH:** 7.50  
**Constituents:** 0.056% Calcium chloride, 5% Glycerol, 0.877% Sodium chloride, 0.606% Tris

**Function**  
Molecular calcium-binding chaperone promoting folding, oligomeric assembly and quality control in the ER via the calreticulin/calnexin cycle. This lectin interacts transiently with almost all of the monoglucosylated glycoproteins that are synthesized in the ER. Interacts with the DNA-binding domain of NR3C1 and mediates its nuclear export.
**Sequence similarities**
Belongs to the calreticulin family.

**Domain**
Can be divided into a N-terminal globular domain, a proline-rich P-domain forming an elongated arm-like structure and a C-terminal acidic domain. The P-domain binds one molecule of calcium with high affinity, whereas the acidic C-domain binds multiple calcium ions with low affinity. The interaction with glycans occurs through a binding site in the globular lectin domain. The zinc binding sites are localized to the N-domain. Associates with PDIA3 through the tip of the extended arm formed by the P-domain.

**Cellular localization**
Endoplasmic reticulum lumen. Cytoplasm > cytosol. Secreted > extracellular space > extracellular matrix. Cell surface. Also found in cell surface (T cells), cytosol and extracellular matrix. Associated with the lytic granules in the cytolytic T-lymphocytes.

**Images**

SDS-PAGE Analysis of ab91577 stained with Coomassie Blue.
Lane 1: MW Marker
Lane 2: 0.5 µg purified Calreticulin
Lane 3: 1 µg purified Calreticulin
Lane 4: 2 µg purified Calreticulin
Lane 5: 5 µg purified Calreticulin

All lanes: Recombinant Human Calreticulin protein (ab91577) at 1/1000 dilution
Lane 1: MW Marker
Lane 2: 50ng Calreticulin
Lane 3: 100ng Calreticulin
Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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