

Product datasheet

Recombinant Mouse Calreticulin protein (His tag) ab240775

[3 Images](#)

Description

Product name	Recombinant Mouse Calreticulin protein (His tag)
Purity	> 90 % SDS-PAGE.
Expression system	Yeast
Accession	<u>P14211</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Mouse
Sequence	DPAYFKEQFLDGDWNTNRWVESKHKSDFGKFLSSGKF YGDLEKDKGLQ TSQDARFYALSAKFEPFSNKGQTLVVQFTVKHEQNIDCG GGYVKLFPSGL DQKDMHGDSEYNIMFGPDICGPGTKKVHVIFNYKGNVLIN KDIRCKDDE FTHLYTLMRPDNTYEVKIDNSQVESGSLEDDWDFLPPKKI KDPDAKPE DWDERAKIDDPTDSKPEDWDKPEHIPDPDAKKPEDWDE EMDGEWEPPVIQ NPEYKGEWKPRQIDNPDYKGTWIHPEIDNPEYSPDANIYAY DSFAVLGLD LWQVKSGTIFDNFLITNDEAYAEFGNETWGVTKAAEKQM KDKQDEEQRL KEEEEDKKRKEEEEAEDKEDDDDRDEDEDEEKEED EEESPGQAKDEL
Predicted molecular weight	48 kDa including tags
Amino acids	18 to 416
Tags	His tag N-Terminus
Additional sequence information	N-terminal 6xHis-tagged. Full length mature chain without signal peptide.

Specifications

Our **Abpromise guarantee** covers the use of **ab240775** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Mass Spectrometry
Mass spectrometry	LC-MS/MS
Form	Liquid

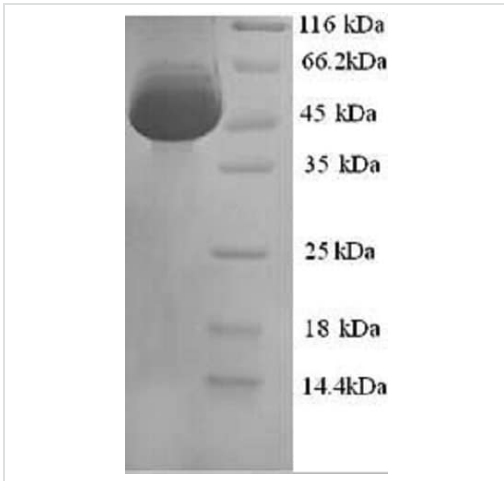
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 7.2 Constituents: Tris buffer, 50% Glycerol (glycerin, glycerine)
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General Info

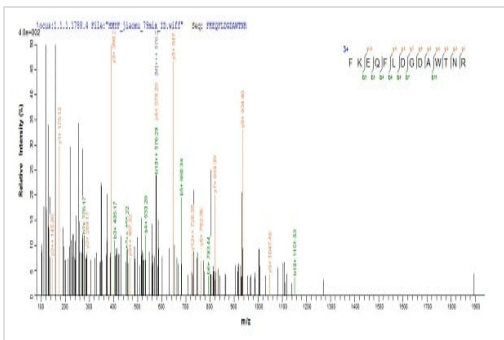
Function	Molecular calcium-binding chaperone promoting folding, oligomeric assembly and quality control in the ER via the calreticulin/calnexin cycle. This lectin interacts transiently with almost all of the monoglucosylated glycoproteins that are synthesized in the ER. Interacts with the DNA-binding 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



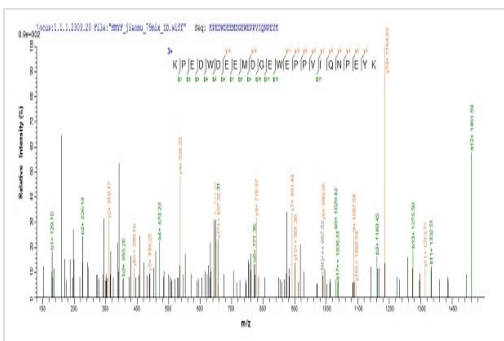
SDS-PAGE - Recombinant Mouse Calreticulin protein (His tag) (ab240775)

(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel analysis of ab240775.



Mass Spectrometry - Recombinant Mouse Calreticulin protein (His tag) (ab240775)

Based on the SEQUEST from database of Yeast host and target protein, the LC-MS/MS Analysis result of ab240775 could indicate that this peptide derived from Yeast-expressed Mus musculus (Mouse) Calreticulin.



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