

Recombinant Mouse Calnexin Protein, His-tagged

Cat. No. Canx-305M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Canx (NP_031623.1) (Met1-Pro482) was expressed with a polyhistidine tag at the C-terminus.
Species	Mouse
Source	HEK293
ProteinLength	Met1-Pro482
Description	Calnexin is a calcium-binding protein that belongs to the calreticulin family. It interacts with newly synthesized glycoproteins in the endoplasmic reticulum. Calnexin seems to play a major role in the quality control apparatus of the ER by the retention of incorrectly folded proteins. It may act in assisting protein assembly and/or in the retention within the ER of unassembled protein subunits. Ass centigradeiated with partial T-cell antigen receptor complexes that escape the ER of immature thym centigradeytes, it may function as a signaling complex regulating thym centigradeyte maturation. Additionally it may play a role in receptor-mediated end centigradeytosis at the synapse.
Predicted N Terminal	His 21
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 %- 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Molecular Mass	The recombinant mouse Canx consists of 473 amino acids and predicts a molecular

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	mass of 53.9 kDa.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 90 % as determined by SDS-PAGE.
Storage	Samples are stable for up to twelve months from date of receipt at -70 centigrade. Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	Canx calnexin [<i>Mus musculus</i>]
Official Symbol	Canx
Synonyms	CANX; calnexin; Cnx; AI988026; D11Ert153e; 1110069N15Rik;
Gene ID	12330
mRNA Refseq	NM_001110499
Protein Refseq	NP_001103969

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