

## Recombinant Mouse Calnexin Protein, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Canx (NP_031623.1) (Met1-Pro482) was expressed with a polyhistidine tag at the C-terminus.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>ProteinLength</b>	Met1-Pro482
<b>Description</b>	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 centigradeyptosis at the synapse.
<b>Predicted N Terminal</b>	His 21
<b>Form</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 %- 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
<b>Molecular Mass</b>	The recombinant mouse Canx consists of 473 amino acids and predicts a molecular

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	mass of 53.9 kDa.
<b>Endotoxin</b>	< 1.0 EU per µg protein as determined by the LAL method.
<b>Purity</b>	> 90 % as determined by SDS-PAGE.
<b>Storage</b>	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.
<b>Reconstitution</b>	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

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

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