

Recombinant Human CANX

Cat. No. CANX-27552TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human Calnexin - ER membrane marker, luminal domain ; 462aa, 52.5kDa.
Species	Human
Source	E.coli
ProteinLength	461 amino acids
Description	This gene encodes a member of the calnexin family of molecular chaperones. The encoded protein is a calcium-binding, endoplasmic reticulum (ER)-associated protein that interacts transiently with newly synthesized N-linked glycoproteins, facilitating protein folding and assembly. It may also play a central role in the quality control of protein folding by retaining incorrectly folded protein subunits within the ER for degradation. Alternatively spliced transcript variants encoding the same protein have been described.
Molecular Weight	52.500kDa
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	pH: 8.00Constituents:0.02% DTT, 20% Glycerol, 0.32% Tris HCl

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Storage	Please see Notes section
Sequences of amino acids	MHDGHDDDDVI DIEDDLDDVI EEVEDSKPDT TAPPSSPKVT YKAPVPTGEV YFADSFDRGT LSGWILSKAK KDDTDDEIAK YDGKWEVEEM KESKLPGDKG LVLMSRAKHH AISAKLNKPF LFDTKPLIVQ YEVSFQNGIE CGGAYVKLLS KTPELNLDQF HDKTPYTIMF GPDKCGEDYK LHFIFRHKNP KTGIIYEEKHA KRPDADLKTY FTDKKTHLYT LILNPDNSFE ILVDQSVVNS GNLLNDMTPP VNPSREIEDP EDRKPEDWDE RPKIPDPEAV KPDDWDEDAP AKIPDEEATK PEGWLDDEPE YVPDPDAEKP EDWDEDMDGE WEAPQIANPR CESAPGCGVW QRPVIDNPNY KGKWKPPMID NPSYQGIWKP RKIPNPDDFE DLEPFRMTPF SAIGLELWSM TSDIFFDNFI ICADRRIVDD WANDGWGLKK AADGAAEPGV VGQMIEAAEE RP
Sequence Similarities	Belongs to the calreticulin family.
GENE INFORMATION	
Gene Name	CANX calnexin [Homo sapiens]
Official Symbol	CANX
Synonyms	CANX; calnexin; CNX; IP90; major histocompatibility complex class I antigen binding protein p88; P90;
Gene ID	821
mRNA Refseq	NM_001024649
Protein Refseq	NP_001019820

MIM	114217
Uniprot ID	P27824
Chromosome Location	5q35
Pathway	Adaptive Immune System, organism-specific biosystem; Antigen Presentation: Folding, assembly and peptide loading of class I MHC, organism-specific biosystem; Antigen processing and presentation, organism-specific biosystem; Antigen processing and presentation, conserved biosystem; Asparagine N-linked glycosylation, organism-specific biosystem;
Function	calcium ion binding; protein binding; sugar binding; unfolded protein binding;

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