

## 32-3412: CANX Recombinant Protein

**Alternative Name :** Calnexin, Major histocompatibility complex class I antigen-binding protein p88, p90, IP90, CANX, CNX, FLJ26570.

### Description

Source : Escherichia Coli. CANX Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 462 amino acids (21-481 a.a.) and having a molecular mass of 52.5kDa. The CANX is purified by proprietary chromatographic techniques. Calnexin (CANX) belongs to the calnexin family of molecular chaperones. Calnexin is a calcium-binding, ER-associated protein that interacts briefly with newly synthesized N-linked glycoproteins, facilitating protein folding and assembly. Calnexin may also have a key role in the quality control of protein folding by retaining incorrectly folded protein subunits within the ER for degradation. Calnexin grants long-term protection of wild-type Shaker protein from ER-associated degradation. Polypeptide substrate recognition by Calnexin requires specific conformations of the Calnexin protein. Calnexin dwindles with aging and might contribute to a cytoprotection in an array of human age-related diseases.

### Product Info

**Amount :** 50 µg  
**Purification :** Greater than 90.0% as determined by SDS-PAGE.  
**Content :** The CANX protein solution contains 20mM Tris-HCl buffer (pH8.0), 1mM DTT and 20% glycerol.  
**Storage condition :** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.  
**Amino Acid :** MHDGHDDDDVI DIEDDLDDVI EEVEDSKPDT TAPPSSPKVT YKAPVPTGEV YFADSFDRGT LSGWILSKAK  
KDDTDDEIAK YDGKWEVEEM KESKLPDGDKG LVLMsRAKHH AISAKLNKPF LFDTKPLIVQ YEVENFQNGIE  
CGGAYVKLLS KTEPNLDQF HDKTPYTIMF GPKCGEDYK LHFIFRHKNP KTGIIYEEKHA KRPDADLKY  
FTDKKTHLYT LILNPDNSFE ILVDQSVVNS GNLLNDMTTP VNPSREIEDP EDRKPEDWDE RPKIPDPEAV  
KPDDWDEDAP AKIPDEEATK PEGWLDDEPE YVPDPDAEKP EDWDEDMDGE WEAPQIANPR  
CESAPGCGVW QRPVIDNPNY KGKWKPPMID NPSYQGIWKP RKIPNPDDFE DLEPFRMTPF SAIGLELWSM  
TSDIFFDNFI ICADRRIVDD WANDGWGLKK AADGAAEPGV VGQMIEAAEE RP.