

CANX Human

Description: 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.

Catalog #: PRPS-732

For research use only.

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

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MHDGHDDDDVI DIEDDLDDVI EEVEDSKPDT TAPPSSPKVT
YKAPVPTGEV YFADSFDRGT LSGWILSKAK KDDTDDEIAK YDGKWEVEEM KESKLPQDKG
LVLMSRAKHH AISAKLNKPF LFDTKPLIVQ YEYVNFQNGIE CGGAYVKLLS KTEPNLDQF
HDKTPYTIMF GPKCKGEDYK LHFIFRHKNP KTGIYEEKHA KRPDADLKTY FTDKKTHLYT
LILNPDNSFE IL

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:

The CANX protein solution contains 20mM Tris-HCl buffer (pH8.0), 1mM DTT and 20% glycerol.

Stability:

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

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.

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