

Recombinant Dog Calnexin

Cat. No. CANX-2072D **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Dog Calnexin is produced in HEK 293 Cell.
Species	Dog
Source	HEK293
Description	Calnexin (CNX) is a 90 kDa integral protein of the endoplasmic reticulum (ER). It consists of a large (50 kDa) N-terminal calcium-binding luminal domain, a single transmembrane helix and a short (90 residues), acidic cytoplasmic tail. Calnexin is one of the chaperone molecules, which are characterized by their main function of assisting protein folding and quality control, ensuring that only properly folded and assembled proteins proceed further along the secretory pathway. The function of calnexin is to retain unfolded or unassembled N-linked glycoproteins in the endoplasmic reticulum. Calnexin binds only those N-glycoproteins that have GlcNAc2Man9Glc1 oligosaccharides. Oligosaccharides with three sequential glucose residues are added to asparagine residues of the nascent proteins in the ER.
Concentration	0.5mg/ml.
Formulation	Liquid. In 40mM HEPES, pH 7.5, containing 150mM sodium chloride, 5mM calcium chloride.
Purity	≥99% (SDS-PAGE; MS).
Application	Western Blot.

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Storage -80°C. Avoid freeze/thaw cycles. Short term storage: +4°C.

GENE INFORMATION

Gene Name CANX calnexin [*Canis lupus familiaris*]

Synonyms CANX; calnexin; PP90

Gene ID 403908

mRNA Refseq NM_001003232

Protein Refseq NP_001003232

UniProt ID P24643

Chromosome Location 11

Pathway Antigen processing and presentation

Luminal domain of calnexin from PDB 1JHN.

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