

COX4NB Blocking Peptide (Center)

Synthetic peptide Catalog # BP20313c

Specification

COX4NB Blocking Peptide (Center) - Product Information

Primary Accession <u>O43402</u>

Other Accession Q5FVL2, Q70378, Q32KL5

COX4NB Blocking Peptide (Center) - Additional Information

Gene ID 10328

Other Names

ER membrane protein complex subunit 8, Neighbor of COX4, Protein FAM158B, EMC8, C16orf2, C16orf4, COX4AL, COX4NB, FAM158B, NOC4

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

COX4NB Blocking Peptide (Center) - Protein Information

Name EMC8

Synonyms C16orf2, C16orf4, COX4AL, COX4NB, FAM158

Function

Part of the endoplasmic reticulum membrane protein complex (EMC) that enables the energy-independent insertion into endoplasmic reticulum membranes of newly synthesized membrane proteins (PubMed:30415835, PubMed:29809151, PubMed:29242231, PubMed:32459176, PubMed:32439656). Preferentially accommodates proteins with transmembrane domains that are weakly hydrophobic or contain destabilizing features such as charged and aromatic residues (PubMed:30415835" target="_blank">30415835, PubMed:29809151, PubMed:29242231, PubMed:<a href="http://www.uniprot.org/citations/29242231" targe



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spanning helices (PubMed:30415835, PubMed:29809151). It is also required for the post-translational insertion of tail-anchored/TA proteins in endoplasmic reticulum membranes (PubMed:29809151, PubMed:29242231). By mediating the proper cotranslational insertion of N-terminal transmembrane domains in an N-exo topology, with translocated N- terminus in the lumen of the ER, controls the topology of multi-pass membrane proteins like the G protein-coupled receptors (PubMed: 30415835). By regulating the insertion of various proteins in membranes, it is indirectly involved in many cellular processes (Probable).

Cellular Location

Endoplasmic reticulum membrane; Peripheral membrane protein; Cytoplasmic side

Tissue Location

Expressed in liver, pancreas, heart, lung, kidney, brain, skeletal muscle, and placenta. Expression levels are highest in pancreas and moderate in heart, skeletal muscle, and placenta

COX4NB Blocking Peptide (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

• Blocking Peptides

COX4NB Blocking Peptide (Center) - Images

COX4NB Blocking Peptide (Center) - Background

The function of this protein remains unknown.