CXA8 Human Protein

PRODUCT OVERVIEW

Product Name	CXA8, Protein
Full Product Name	Human CXA8 full length protein-synthetic nanodisc
Product Gene Name	CXA8 protein
Product Synonym Names	CAE; CAE1; CTRCT1; CX50; CZP1; MP70
Host	HEK293
Form/Format	Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5%-8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions. Do not use solvents with pH lower
Preparation and Storage	Store at -20 degree C to -80 degree C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80 degree C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Molecular Weight	48,229 Da
OMIM	600897
3D Structure	ModBase 3D Structure for P48165
Tag	C-DYKDDDDK
Product Categories/Family for CXA8 protein	Full Length Transmembrane Proteins; Ion Channels: Other
Related Product Information for CXA8 protein	This gene encodes a transmembrane connexin protein that is necessary for lens growth and maturation of lens fiber cells. The encoded protein is a component of gap junction channels and functions in a calcium and pH-dependent manner. Mutations in this gene have been associated with zonular pulverulent cataracts, nuclear progressive cataracts, and cataract-microcornea syndrome. [provided by RefSeq, Dec 2009]
Other Notes	Small volumes of CXA8 protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CXA8 purchase	MBS1882971 is a protein targeting CXA8. Also known as Human CXA8 full length protein-synthetic nanodisc. Host: HEK293.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CXA8. It may not necessarily be applicable to this product.

NCBI GI #	55953076
NCBI GeneID	2703
NCBI Accession #	NP_005258.2
UniProt Primary Accession #	P48165
UniProt Secondary Accession #	Q5VVN9; Q9NP25; A7L5M5
UniProt Related Accession #	P48165
GenBank Nucleotide #	NM_005267.4
NCBI Official Full Name	gap junction alpha-8 protein

NCBI Official Synonym Full Names	gap junction protein alpha 8
NCBI Official Symbol	GJA8
NCBI Official Synonym Symbols	CAE; CAE1; CX50; CZP1; MP70; CTRCT1
UniProt Protein Name	Gap junction alpha-8 protein
UniProt Synonym Protein Names	Connexin-50; Cx50; Lens fiber protein MP70
UniProt Gene Name	GJA8
UniProt Synonym Gene Names	Cx50
UniProt Entry Name	CXA8_HUMAN
NCBI Protein Information	gap junction alpha-8 protein
Research Articles on CXA8	**1.** These results indicated that the mutant Cx50 (S276F) might inhibit the function of gap junction channel in a dominant negative manner, but inhibit the hemichannel function in a recessive negative manner.
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