CLCN6 Human Protein

PRODUCT OVERVIEW

Product Name	CLCN6, Protein
Full Product Name	Human CLCN6-Strep full length protein-synthetic nanodisc
Product Gene Name	CLCN6 protein
Product Synonym Names	CLC-6; CONRIBA
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	97,289 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (11866153..11903201). Location: 1p36
OMIM	602726
3D Structure	ModBase 3D Structure for P51797
Tag	C-DYKDDDDK&Strep
Product Categories/Family for CLCN6 protein	Full Length Transmembrane Proteins; Ion Channels: Other
Related Product Information for CLCN6 protein	This gene encodes a member of the voltage-dependent chloride channel protein family. Members of this family can function as either chloride channels or antiporters. This protein is primarily localized to late endosomes and functions as a chloride/proton antiporter. Alternate splicing results in both coding and non-coding variants. Additional alternately spliced variants have been described but their full-length structure is unknown. [provided by RefSeq, Mar 2012]
Other Notes	Small volumes of CLCN6 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 CLCN6 purchase	MBS1883677 is a protein targeting CLCN6. Also known as Human CLCN6-Strep full length protein-synthetic nanodisc. Host: HEK293.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CLCN6. It may not necessarily be applicable to this product.

NCBI GI #	379698826
NCBI GeneID	1185
NCBI Accession #	NP_001243888.1
UniProt Primary Accession #	P51797
UniProt Secondary Accession #	O60818; O60819; O60820; O60821; P78520; P78521; Q17R81; Q5SNW2; A8K1T4; B4DGT7; F8W9R3
UniProt Related Accession #	P51797

GenBank Nucleotide #	NM_001256959.1
NCBI Official Full Name	chloride transport protein 6 isoform 2
NCBI Official Synonym Full Names	chloride channel, voltage-sensitive 6
NCBI Official Symbol	CLCN6
NCBI Official Synonym Symbols	CLC-6
UniProt Protein Name	Chloride transport protein 6
UniProt Synonym Protein Names	Chloride channel protein 6
Protein Family	Chloride transport protein
UniProt Gene Name	CLCN6
UniProt Synonym Gene Names	KIAA0046; ClC-6
UniProt Entry Name	CLCN6_HUMAN
NCBI Protein Information	chloride transport protein 6
UniProt Comments for CLCN6	Function: Chloride transport protein, initially identified as voltage-gated chloride channel. The presence of the conserved gating glutamate residues suggests that is functions as antiporter. Subcellular location: Endosome membrane; Multi-pass membrane protein. Note: Detected in detergent-resistant lipid rafts. Ref.11 Tissue specificity: Testis, ovary, small intestine, brain and skeletal muscle. Low level expression in aortic and coronary vascular smooth muscle cells, and aortic endothelial cells. Isoform 3 is only detected in kidney. Ref.1 Ref.2 Ref.10 Post-translational modification: N-glycosylated on several asparagine residues. Ref.11 Miscellaneous: The CLC channel family contains both chloride channels and proton-coupled anion transporters that exchange chloride or another anion for protons. The presence of conserved gating glutamate residues is typical for family members that function as antiporters By similarity. Sequence similarities: Belongs to the chloride channel (TC 2.A.49) family. ClC-6/CLCN6 subfamily. [View classification]Contains 2 CBS domains.
Research Articles on CLCN6	**1.** Observational study of gene-disease association, gene-environment interaction, and pharmacogenomic / toxicogenomic. (HuGE Navigator)
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