CLCA1 Human Protein

PRODUCT OVERVIEW

Product Name	CLCA1, Protein
Full Product Name	Human CLCA1 full length protein-synthetic nanodisc
Product Gene Name	CLCA1 protein
Product Synonym Names	CACC; CACC1; CLCRG1; CaCC-1; GOB5; hCLCA1; hCaCC-1
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	100,226 Da
OMIM	603906
3D Structure	ModBase 3D Structure for A8K7I4
Tag	C-DYKDDDDK
Product Categories/Family for CLCA1 protein	Full Length Transmembrane Proteins; Ion Channels: Other
Related Product Information for CLCA1 protein	This gene encodes a member of the calcium sensitive chloride conductance protein family. To date, all members of this gene family map to the same region on chromosome 1p31-p22 and share a high degree of homology in size, sequence, and predicted structure, but differ significantly in their tissue distributions. The encoded protein is expressed as a precursor protein that is processed into two cell-surface-associated subunits, although the site at which the precursor is cleaved has not been precisely determined. The encoded protein may be involved in mediating calcium-activated chloride conductance in the intestine. [provided by RefSeq, Jul 2008]
Other Notes	Small volumes of CLCA1 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 CLCA1 purchase	MBS1882956 is a protein targeting CLCA1. Also known as Human CLCA1 full length protein-synthetic nanodisc. Host: HEK293.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CLCA1. It may not necessarily be applicable to this product.

NCBI GI #	110611231
NCBI GeneID	1179
NCBI Accession #	NP_001276.2
UniProt Primary Accession #	A8K7I4
UniProt Secondary Accession #	O95151; Q5TDF4; Q9UNF6; Q9UPC6; B2RAV5
UniProt Related Accession #	A8K7I4

GenBank Nucleotide #	NM_001285.3
NCBI Official Full Name	calcium-activated chloride channel regulator 1
NCBI Official Synonym Full Names	chloride channel accessory 1
NCBI Official Symbol	CLCA1
NCBI Official Synonym Symbols	CACC; GOB5; CACC1; CLCRG1; CaCC-1; hCLCA1; hCaCC-1
UniProt Protein Name	Calcium-activated chloride channel regulator 1
UniProt Synonym Protein Names	Calcium-activated chloride channel family member 1; hCLCA1; Calcium-activated chloride channel protein 1
Protein Family	Calcium-activated chloride channel regulator
UniProt Gene Name	CLCA1
UniProt Synonym Gene Names	CACC1; hCLCA1; CaCC-1; hCaCC-1
UniProt Entry Name	CLCA1_HUMAN
NCBI Protein Information	calcium-activated chloride channel regulator 1; calcium-dependent chloride channel-1; calcium-activated chloride channel protein 1; CLCA family member 1, chloride channel regulator; calcium-activated chloride channel family member 1; chloride channel, cal
UniProt Comments for CLCA1	CLCA1: May be involved in mediating calcium-activated chloride conductance. May play critical roles in goblet cell metaplasia, mucus hypersecretion, cystic fibrosis and AHR. May be involved in the regulation of mucus production and/or secretion by goblet cells. Involved in the regulation of tissue inflammation in the innate immune response. May play a role as a tumor suppressor. Induces MUC5AC. Belongs to the CLCR family. Protein type: Vesicle; Channel, chloride Chromosomal Location of Human Ortholog: 1p22.3 Cellular Component: extracellular space; zymogen granule membrane; microvillus; integral to plasma membrane; plasma membrane Molecular Function: chloride channel activity; metallopeptidase activity; metal ion binding Biological Process: transport; calcium ion transport; chloride transport; proteolysis; transmembrane transport
Research Articles on CLCA1	**1.** CLCA1 may contribute to promoting spontaneous differentiation and reducing proliferation of Caco-2 cells.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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