CELR3 Human Protein

PRODUCT OVERVIEW

Product Name	CELR3, Protein
Full Product Name	Human CELR3 full length protein-synthetic nanodisc
Product Gene Name	CELR3 protein
Product Synonym Names	ADGRC3; CDHF11; EGFL1; FMI1; HFMI1; MEGF2; RESDA1
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.
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).
Molecular Weight	358,185 Da
Chromosome Location	Chromosome: 3; NC_000003.11 (48673896..48700348, complement). Location: 3p21.31
OMIM	604264
3D Structure	ModBase 3D Structure for Q9NYQ7
Product Categories/Family for CELR3 protein	FLP 489; Full Length Transmembrane Proteins
Related Product Information for CELR3 protein	This gene belongs to the flamingo subfamily, which is included in the cadherin superfamily. The flamingo cadherins consist of nonclassic-type cadherins that do not interact with catenins. They are plasma membrane proteins containing seven epidermal growth factor-like repeats, nine cadherin domains and two laminin A G-type repeats in their ectodomain. They also have seven transmembrane domains, a characteristic feature of their subfamily. The encoded protein may be involved in the regulation of contact-dependent neurite growth and may play a role in tumor formation. [provided by RefSeq, Jun 2013]
Other Notes	Small volumes of CELR3 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 CELR3 purchase	MBS189974 is a protein targeting CELR3. Also known as Human CELR3 full length protein-synthetic nanodisc. Host: HEK293.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CELR3. It may not necessarily be applicable to this product.

NCBI GI #	145309304
NCBI GeneID	1951
NCBI Accession #	NP_001398.2
UniProt Primary Accession #	Q9NYQ7
UniProt Secondary Accession #	O75092
UniProt Related Accession #	Q9NYQ7
GenBank Nucleotide #	NM_001407.2
NCBI Official Full Name	cadherin EGF LAG seven-pass G-type receptor 3

NCBI Official Synonym Full Names	cadherin, EGF LAG seven-pass G-type receptor 3
NCBI Official Symbol	CELSR3
NCBI Official Synonym Symbols	FMI1; EGFL1; HFMI1; MEGF2; CDHF11; RESDA1
UniProt Protein Name	Cadherin EGF LAG seven-pass G-type receptor 3
UniProt Synonym Protein Names	Cadherin family member 11; Epidermal growth factor-like protein 1; EGF-like protein 1; Flamingo homolog 1; hFmi1; Multiple epidermal growth factor-like domains protein 2
UniProt Gene Name	CELSR3
UniProt Synonym Gene Names	CDHF11; EGFL1; FMI1; KIAA0812; MEGF2; EGF-like protein 1; hFmi1
UniProt Entry Name	CELR3_HUMAN
NCBI Protein Information	cadherin EGF LAG seven-pass G-type receptor 3; anchor protein; EGF-like protein 1; flamingo homolog 1; cadherin family member 11; EGF-like-domain, multiple 1; multiple EGF-like domains 2; epidermal growth factor-like 1; multiple EGF-like domains protein 2
NCBI Summary for CELR3	The protein encoded by this gene is a member of the flamingo subfamily, part of the cadherin superfamily. The flamingo subfamily consists of nonclassic-type cadherins; a subpopulation that does not interact with catenins. The flamingo cadherins are located at the plasma membrane and have nine cadherin domains, seven epidermal growth factor-like repeats and two laminin A G-type repeats in their ectodomain. They also have seven transmembrane domains, a characteristic unique to this subfamily. It is postulated that these proteins are receptors involved in contact-mediated communication, with cadherin domains acting as homophilic binding regions and the EGF-like domains involved in cell adhesion and receptor-ligand interactions. The specific function of this particular member has not been determined. [provided by RefSeq, Jul 2008]
UniProt Comments for CELR3	CELSR3: Receptor that may have an important role in cell/cell signaling during nervous system formation. Belongs to the G-protein coupled receptor 2 family. LN-TM7 subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Receptor, GPCR; Membrane protein, multi-pass; GPCR, family 2 Chromosomal Location of Human Ortholog: 3p21.31 Cellular Component: integral to membrane; plasma membrane Molecular Function: G-protein coupled receptor activity; protein binding; calcium ion binding Biological Process: G-protein coupled receptor protein signaling pathway; regulation of protein localization; axonal fasciculation; neuron migration; cilium biogenesis; homophilic cell adhesion
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