AGRL2 Human Protein

PRODUCT OVERVIEW

Product Name	AGRL2, Protein
Full Product Name	Human AGRL2 full length protein-synthetic nanodisc
Product Gene Name	AGRL2 protein
Product Synonym Names	CIRL2; CL2; LEC1; LPHH1; LPHN2
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	163,349 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (82266082..82458107). Location: 1p31.1
OMIM	607018
3D Structure	ModBase 3D Structure for O95490
Product Categories/Family for AGRL2 protein	FLP 489; Full Length Transmembrane Proteins
Related Product Information for AGRL2 protein	This gene encodes a member of the latrophilin subfamily of G-protein coupled receptors. The encoded protein participates in the regulation of exocytosis. The proprotein is thought to be further cleaved within a cysteine-rich G-protein-coupled receptor proteolysis site into two chains that are non-covalently bound at the cell membrane. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]
Other Notes	Small volumes of AGRL2 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 AGRL2 purchase	MBS189959 is a protein targeting AGRL2. Also known as Human AGRL2 full length protein-synthetic nanodisc. Host: HEK293.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AGRL2. It may not necessarily be applicable to this product.

NCBI GI #	6912464
NCBI GeneID	23266
NCBI Accession #	NP_036434.1
UniProt Primary Accession #	O95490
UniProt Secondary Accession #	O94882; Q5VX76; Q9UKY5; A5XEI2; B1ALT8; B1ALT9; B1ALU0; B1ALU2; B1ALU4; B1ALU5; B1ALU6
UniProt Related Accession #	O95490
GenBank Nucleotide #	NM_012302.2
NCBI Official Full Name	latrophilin-2
NCBI Official Synonym Full Names	latrophilin 2

NCBI Official Symbol	LPHN2
NCBI Official Synonym Symbols	CL2; LEC1; CIRL2; LPHH1
UniProt Protein Name	Latrophilin-2
UniProt Synonym Protein Names	Calcium-independent alpha-latrotoxin receptor 2; CIRL-2; Latrophilin homolog 1; Lectomedin-1
UniProt Gene Name	LPHN2
UniProt Synonym Gene Names	KIAA0786; LEC1; LPHH1; CIRL-2
UniProt Entry Name	LPHN2_HUMAN
NCBI Protein Information	latrophilin-2; CIRL-2; lectomedin-1; latrophilin 1; latrophilin homolog 1; latrophilin homolog 2 (cow); calcium-independent alpha-latrotoxin receptor 2
NCBI Summary for AGRL2	This gene encodes a member of the latrophilin subfamily of G-protein coupled receptors (GPCR). Latrophilins may function in both cell adhesion and signal transduction. In experiments with non-human species, endogenous proteolytic cleavage within a cysteine-rich GPS (G-protein-coupled-receptor proteolysis site) domain resulted in two subunits (a large extracellular N-terminal cell adhesion subunit and a subunit with substantial similarity to the secretin/calcitonin family of GPCRs) being non-covalently bound at the cell membrane. While several transcript variants have been described, the biological validity of only one has been determined. [provided by RefSeq, Jul 2008]
UniProt Comments for AGRL2	latrophilin 2: Calcium-independent receptor of low affinity for alpha- latrotoxin, an excitatory neurotoxin present in black widow spider venom which triggers massive exocytosis from neurons and neuroendocrine cells. Receptor propably implicated in the regulation of exocytosis. Belongs to the G-protein coupled receptor 2 family. LN-TM7 subfamily. 7 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; GPCR, family 2; Receptor, GPCR; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 1p31.1 Cellular Component: integral to membrane; plasma membrane Molecular Function: G-protein coupled receptor activity; latrotoxin receptor activity; carbohydrate binding Biological Process: G-protein coupled receptor protein signaling pathway
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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