LDL R (LDLR) Rabbit Recombinant Protein

PRODUCT OVERVIEW

Product Name	LDL R (LDLR), Recombinant Protein
Full Product Name	Rabbit LDL R Recombinant Protein Fc Tag Lyophilized
Product Gene Name	LDLR recombinant protein
Host	HEK293 cells
Form/Format	This is a Lyophilized protein buffered in Tris with Glycine, Arginine and NaCl, pH7.5
Purity/Purification	>90% as determined by SDS-PAGE.
Preparation and Storage	Lyophilized Protein should be stored at -20 degree C or lower for long term storage. Upon reconstitution, working aliquots should be stored at -20 degree C or -70 degree C. Avoid repeated freeze-thaw cycles.
Species	Rabbit
Tag	Fc
Related Product Information for LDLR recombinant protein	Rabbit LDL R Recombinant Protein Fc Tag Lyophilized has been recombinantly produced in HEK293 cells. Low-Density Lipoprotein (LDL) Receptor is also known as LDLR, FH, FHC, LDLCQ2, and is a mosaic protein of ~840 amino acids (after removal of signal peptide) that mediates the endocytosis of cholesterol-rich LDL. It is a cell-surface receptor that recognizes the apoprotein B100 which is embedded in the phospholipid outer layer of LDL particles. The receptor also recognizes the apoE protein found in chylomicron remnants and VLDL remnants (IDL). It belongs to the Low density lipoprotein receptor gene family. LDL receptor complexes are present in clathrin-coated pits (or buds) on the cell surface, which when bound to LDL-cholesterol via adaptin, are pinched off to form clathrin-coated vesicles inside the cell. This allows LDL-cholesterol to be bound and internalized in a process known as endocytosis and prevents the LDL just diffusing around the membrane surface. This occurs in all nucleated cells (not erythrocytes), but mainly in the liver which removes ~70% of LDL from the circulation. Synthesis of receptors in the cell is regulated by the level of free intracellular cholesterol; if it is in excess for the needs of the cell then the transcription of the receptor gene will be inhibited. LDL receptors are translated by ribosomes on the endoplasmic reticulum and are modified by the Golgi apparatus before travelling in vesicles to the cell surface. LDL is directly involved in the development of atherosclerosis, due to accumulation of LDL-cholesterol in the blood. Atherosclerosis is the process responsible for the majority of cardiovascular diseases. This protein carries a human IgG1 Fc Tag at the C-terminal. The protein has a calculated MW of 109.2 kDa. The protein migrates as 120-140 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Other Notes	Small volumes of LDLR recombinant 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 LDLR purchase	MBS8434491 is a recombinant protein targeting LDLR. Also known as Rabbit LDL R Recombinant Protein Fc Tag Lyophilized. Host: HEK293 cells.

ADDITIONAL DETAILS

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

Protein Family	Low-density lipoprotein receptor
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