Active Recombinant Human LDLR protein, mFc-tagged

Cat. No. LDLR-336H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the human LDLR (NP_000518.1) (Met1-Arg788) was expressed with the Fc region of mouse IgG1 at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	Met1-Arg788
Description	LDL Receptor, also known as LDLR, is a mosaic protein which belongs to the Low density lipoprotein receptor gene family. The low density lipoprotein receptor (LDLR) gene family consists of cell surface proteins involved in receptor-mediated endocytosis of specific ligands. LDL Receptor consists of 84 amino acids (after removal of signal peptide) and mediates the endocytosis of cholesterol-rich LDL. Low density lipoprotein (LDL) is normally bound at the cell membrane and taken into the cell ending up in lysosomes where the protein is degraded and the cholesterol is made available for repression of microsomal enzyme 3-hydroxy-3-methylglutaryl coenzyme A (HMG CoA) reductase, the rate-limiting step in cholesterol synthesis. At the same time, a reciprocal stimulation of cholesterol ester synthesis takes place. LDL Receptor is a cell-surface receptor that recognizes the apoprotein B1 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.
Predicted N Terminal	Ala 22

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Form	Lyophilized from sterile 50 mM Tris, 100 mM Glycine, 10 mM NaCl, pH 8.0. Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	Testing in progress
Molecular Mass	The recombinant human LDLR consists of 1001 amino acids and predicts a molecular mass of 111.2 kDa.
Endotoxin	< 1.0 EU per μg protein as determined by the LAL method.
Purity	> 85 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C
Storage	Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4℃ before opening to recover the entire contents.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	LDLR low density lipoprotein receptor [Homo sapiens (human)]

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Official Symbol	LDLR
Synonyms	FH; FHC; FHCL1; LDLCQ2
Gene ID	3949
mRNA Refseq	NM_000527.5
Protein Refseq	NP_000518.1
MIM	606945
UniProt ID	P01130

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