Recombinant Human LDLR

Cat. No. LDLR-29938TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 105-205 of Human LDL Receptor with a proprietary tag; Predicted MWt 36.74 kDa including tag.
Species	Human
Source	Wheat Germ
ProteinLength	101 amino acids
Description	The low density lipoprotein receptor (LDLR) gene family consists of cell surface proteins involved in receptor-mediated endocytosis of specific ligands. 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. Mutations in this gene cause the autosomal dominant disorder, familial hypercholesterolemia. Alternate splicing results in multiple transcript variants.
Molecular Weight	36.740kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.31% Glutathione
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	PPKTCSQDEFRCHDGKCISRQFVCDSDRDCLDGSDEASCPVLTCGPASFQCNSSTCIPQLWACDNDPDCEDGSDEWPQRCRGLYVFQGDSSPCSAFEFHCL
Sequence Similarities	Belongs to the LDLR family.Contains 3 EGF-like domains.Contains 7 LDL-receptor class A domains.Contains 6 LDL-receptor class B repeats.

GENE INFORMATION

Gene Name	LDLR low density lipoprotein receptor [Homo sapiens]
Official Symbol	LDLR
Synonyms	LDLR; low density lipoprotein receptor; low-density lipoprotein receptor; familial hypercholesterolemia;
Gene ID	3949
mRNA Refseq	NM_000527
Protein Refseq	NP_000518
Uniprot ID	P01130
Chromosome Location	19p13.2
Pathway	Bile secretion, organism-specific biosystem; Bile secretion, conserved biosystem;

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	Chylomicron-mediated lipid transport, organism-specific biosystem; DNA damage response (only ATM dependent), organism-specific biosystem; Endocytosis, organism-specific biosystem;
Function	calcium ion binding; low-density lipoprotein particle binding; low-density lipoprotein receptor activity; protein binding; receptor activity;

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