Recombinant Full Length Human LDLR Protein, C-Flag-tagged

Cat. No. LDLR-1033HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human LDLR Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	93 kDa
AA Sequence	MGPWGWKLRWTVALLLAAAGTAVGDRCERNEFQCQDGKCISYKWVCDGSAECQD GSDESQETCLSVTCKS GDFSCGGRVNRCIPQFWRCDGQVDCDNGSDEQGCPPKT CSQDEFRCHDGKCISRQFVCDSDRDCLDGSDE ASCPVLTCGPASFQCNSSTCIPQ LWACDNDPDCEDGSDEWPQRCRGLYVFQGDSSPCSAFEFHCLSGECI HSSWRCD

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	GGPDCKDKSDEENCAVATCRPDEFQCSDGNCIHGSRQCDREYDCKDMSDEVGCV NVTLCEGPN KFKCHSGECITLDKVCNMARDCRDWSDEPIKECGTNECLDNNGGCS HVCNDLKIGYECLCPDGFQLVAQR RCEDIDECQDPDTCSQLCVNLEGGYKCQCEE GFQLDPHTKACKAVGSIAYLFFTNRHEVRKMTLDRSEYT SLIPNLRNVVALDTEVAS NRIYWSDLSQRMICSTQLDRAHGVSSYDTVISRDIQAPDGLAVDWIHSNIYW TDSVL GTVSVADTKGVKRKTLFRENGSKPRAIVVDPVHGFMYWTDWGTPAKIKKGGLNGV DIYSLVTENI QWPNGITLDLLSGRLYWVDSKLHSISSIDVNGGNRKTILEDEKRLAHP FSLAVFEDKVFWTDIINEAIFS ANRLTGSDVNLLAENLLSPEDMVLFHNLTQPRGVN WCERTTLSNGGCQYLCLPAPQINPHSPKFTCACPD GMLLARDMRSCLTEAEAAVA TQETSTVRLKVSSTAVRTQHTTTRPVPDTSRLPGATPGLTTVEIVTMSHQ ALGDVA GRGNEKKPSSVRALSIVLPIVLLVFLCLGVFLLWKNWRLKNINSINFDNPVYQKTTED EVHICH NQDGYSYPSRQMVSLEDDVATRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
Protein Pathways	Endocytosis

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Full Length	Full L.

GENE INFORMATION

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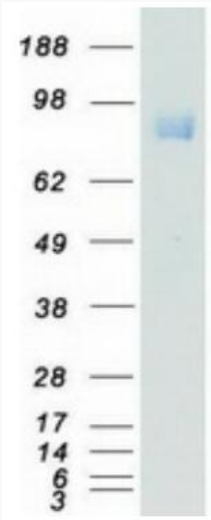

Coomassie blue staining of purified LDLR protein.

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