

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	MGPWGWKLRWTVALLAAAGTAVGDR CERNEFQCQDGK CISYKWWCDGSAECQD GSD ESQETCLSVTCKSGDFSCGGRVNR CIPQFWRC DGQVDCDNGSDEQGC PPKT CSQDEF RCHD GKCISRQFVCDS DRDCLDGSDEASCPVLT CGPAS FQCNSSTCIPQ LWACDNDPDCEDGSDEWPQR CRGLYVFQGDSSPCSAFE FHCLSGECI HSSWRCD

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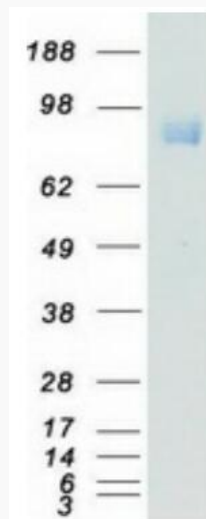
GGPDCKDKSDEENCAVATCRPDEFQCSHGNCIHGSRQCDREYDCKDMSDEVGCV
 NVTLCCEGPN KFKCHSGECITLDKVCNMARDCRDWSDEPIKECGTNECLDNNGGCS
 HVCNDLKIGYECLCPDGFQLVAQR RCEDIDECQDPDTCSQLCVNLEGGYKCQCEE
 GFQLDPHTKACKAVGSIAYLFFTNRHEVRKMTLDRSEYT SLIPNLRNVVALDTEVAS
 NRIYWSDL SQRMICSTQLDRAHGVSSYDTVISRDIQAPDGLAVDWIHSNIYW TDSVL
 GTVSVADTKGVKRKTLFRENGSKPRAIVVDPVHGFMWTDWGTAPAKIKKGGLNGV
 DIYSLVTENI QWPNGITLDLLSGRLYWVDSKLHSSIDVNGGNRKILEDEKRLAHP
 FSLAVFEDKVFWDIINEAIFS ANRLTGSDVNLLAENLLSPEDMVL FHNLTQPRGVN
 WCERTTSLNGGCQYLCLPAPQINPHSPKFTCACPD GMLLARDMRSCLTEAEAAVA
 TQETSTVRLKVSSTAVRTQHTTTRPVPDTSRLPGATPGLTTVEIVTMSHQ ALGDVA
 GRGNEKKPSSVRALSIVLPIVLLVFLCLGVFLLWKNWRLKNINSINFDPVYQKTTE
 EVHICH
 NQDGYSYPSRQMVSLLEDDVATRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

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](#) 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



Coomassie blue staining of purified LDLR protein.

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