

Recombinant Human LDLR Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. LDLR-275H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	LDLR MS Standard C13 and N15-labeled recombinant protein (NP_000518) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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. [provided by RefSeq, Sep 2010]
Molecular Mass	95.38 kDa
AA Sequence	MGPWGWKLRWTVALLLAAAGTAVGDR CERNEFQCQDGK CISYKWWCDGSAECQD GSDESQETCLSVTCKSGDFSCGGRVNR CIPQFWRC DGQVDCDNGSDEQGCP PKT CSQDEF RCHD GKCISRQFVCDS DRDCLDGSDEASCPVLTCGPASFQCNSSTCIPQL

 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

WACDNDPDCEDGSDEWPQRCRGLYVFQGDSSPCSAFEFHCLSGECIHSSWRCDG
 GPDCKDKSDEENCAVATCRPDEFQCS DGNCIHGSRQCDREYDCKDMSDEVGCVN
 VTLC EGP NKF KCHSGECITLDKVCNMARDCRDWSDEPIKECGTNECLDNNGGCSH
 VCNDLKIGYEC LCPDGFQLVAQRRCEDIDECQDPDTC SQLCVNLEGGYKCQCEEGF
 QLDPHTKACKAVGSIAYLFFTNRHEVRKMTLDRSEYTS LIPNLRNVVALDTEVASNRI
 YWSDL SQRMICSTQLDRAHGVSSYDTVISRDIQAPDGLAVDWIHSNIYWTDSVLGTV
 SVADTKGVKRKTLFRENGSKPRAIVVDPVHGFM YWTDWGTPAKIKKGGLNGVDIYS
 LVTENIQWPNGITLDLLSGRLYWVDSKLHSSIDVNGGNRKTILEDEKRLAHPFSLAV
 FEDKVFWDIINEAIFSANRLTGSDVNLLAENLLSPEDMVL FHNLTQPRGVNWCERT
 TLSNGGCQYLCLPAPQINPHSPKFTCACPDGM LLLARDMRSCLTEAEAAVATQETST
 VRLKVSSTAVRTQHTTTRPVPDTSRLPGATPGLTTVEIVTMSHQALGDVAGRGNEK
 KPSSVRALSIVLPIVLLVFLCLGVFLLWKNWRLKNINSINF DNPVYQKTTEDEVHICHN
 QDGYSYPSRQMVSLEDDVATRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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

Official Symbol LDLR

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Synonyms	LDLR; low density lipoprotein receptor; low-density lipoprotein receptor; familial hypercholesterolemia; LDL receptor; low-density lipoprotein receptor class A domain-containing protein 3; FH; FHC; LDLCQ2;
Gene ID	3949
mRNA Refseq	NM_000527
Protein Refseq	NP_000518
MIM	606945
UniProt ID	P01130
SDS-PAGE	