

Recombinant Human LDLR Protein, ALA22-ARG788, Tag Free, Biotinylated

Cat. No. LDLR-160H **Lot. No.** (See product label)

SPECIFICATION

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|--------------------------|---|
| Product Overview | Recombinant human LDL receptor protein was developed from HEK293. |
| Species | Human |
| Source | HEK293 |
| ProteinLength | ALA22-ARG788 |
| Description | <p>The low density lipoprotein receptor (LDLR) gene family consists of cell surface proteins involved in receptor-mediated endocytosis of specific ligands. The encoded protein is normally bound at the cell membrane, where it binds low density lipoprotein/cholesterol and is taken into the cell. Lysosomes release the cholesterol, which 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.</p> |
| Conjugation/Label | Biotin |
| Form | Lyophilised |
| Endotoxin | Endotoxin level was found to be less than 0.1 ng/μg (1 EU/μg). |

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|-----------------------|---|
| Notes | FOR RESEARCH USE ONLY (RUO). |
| Storage | Recombinant LDL receptor can be stored in working aliquots at 2 to 8 centigrade for one month, or at -20 to -70 centigrade for 1 year. Avoid repeated freeze/thaw cycles. |
| Storage Buffer | Lyophilised from 0.2 µm filtered PBS solution, pH 7.2, 5% Trehalose. |
| Conjugation | Biotin |

GENE INFORMATION

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|------------------------|---|
| Gene Name | LDLR low density lipoprotein receptor [Homo sapiens (human)] |
| Official Symbol | LDLR |
| 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 |

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