

## LDLR / LDL Receptor Active Protein | LDLR active protein

Recombinant Human LDLR Protein (His Tag)(Active)

CATALOG #  
**AAA173570**

HOST  
**HEK293 Cells**

### PRODUCT SYNONYMS

LDLR / LDL Receptor; Recombinant Human LDLR Protein (His Tag)(Active); Low-Density Lipoprotein Receptor; LDL Receptor; LDLR; FH; FHC; LDL R; LDLCQ2; LDLR active protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | HEK293 Cells                                                                                                                                                                                                                                                                                                                                                                          |
| Purity/Purification     | > 85 % as determined by reducing SDS-PAGE.                                                                                                                                                                                                                                                                                                                                            |
| Form/Format             | Lyophilized from sterile PBS, pH 7.4, 5%Trehalose, 5% Mannitol, 0.01% Tween 80.                                                                                                                                                                                                                                                                                                       |
| Sequence                | Met1-Arg78 8                                                                                                                                                                                                                                                                                                                                                                          |
| Species                 | Human                                                                                                                                                                                                                                                                                                                                                                                 |
| Tag                     | C-His                                                                                                                                                                                                                                                                                                                                                                                 |
| Bio_activity            | 1. Measure by its ability to bind with human PCSK9 in a functional ELISA. Immobilized human PCSK9 at 10 ug/ml (100 ul/well) can bind biotinylated recombinant human LDLR. The EC50 of biotinylated human LDLR is 0.61 ug/ml.<br>2. Immobilized mouse PCSK9 at 10 ug/ml (100 ul/well) can bind biotinylated recombinant human LDLR. The EC50 of biotinylated human LDLR is 0.12 ug/ml. |
| Endotoxin               | < 1.0 EU per ug of the protein as determined by the LAL method.                                                                                                                                                                                                                                                                                                                       |
| Reconstitution          | We recommend that the vial be centrifuged to opening to bring the contents to the bottom. Do not mix by vortex. It is recommended that sterile water(330ul) be added to the vial to prepare a stock solution of 0.15mg/mL. Concentration is measured by UV-Vis.                                                                                                                       |
| Preparation and Storage | Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4 to 8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. Shipping: This product is provided as lyophilized powder which is shipped with ice packs.                                                      |

### ADDITIONAL INFORMATION

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| Related Product Information for LDLR active protein | LDL Receptor, also known as LDLR, is a mosaic protein which belongs to the Low density lipoprotein receptor gene family. The low density lipoprotein receptor (LDLR) gene family consists of cell surface proteins involved in receptormediated endocytosis of specific ligands. LDL Receptor consists of 840 amino acids (after removal of signal peptide) and mediates the endocytosis of cholesterol-rich LDL. 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. LDL Receptor is a cell-surface receptor that recognizes the apoprotein B100 which is embedded in the phospholipid outer layer of LDL particles. The receptor also recognizes the apoE protein found in chylomicron remnants and VLDL remnants. |
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### NCBI AND UNIPROT INFORMATION

|             |                         |
|-------------|-------------------------|
| NCBI GI #   | <a href="#">4504975</a> |
| NCBI GeneID | <a href="#">3949</a>    |

|                                  |                                                                                        |
|----------------------------------|----------------------------------------------------------------------------------------|
| NCBI Accession #                 | NP_000518.1                                                                            |
| NCBI GenBank Nucleotide #        | NM_000527.4                                                                            |
| UniProt Accession #              | P01130; Q53ZD9; Q59FQ1; Q9UDH7; B4DII3; B4DJZ8; B4DR00; B4DTQ3; C0JYY8; H0YLU8; H0YNT7 |
| Molecular Weight                 | 86 kDa                                                                                 |
| NCBI Official Full Name          | low-density lipoprotein receptor isoform 1                                             |
| NCBI Official Synonym Full Names | low density lipoprotein receptor                                                       |
| NCBI Official Symbol             | LDLR                                                                                   |
| NCBI Official Synonym Symbols    | FH; FHC; LDLCQ2                                                                        |
| NCBI Protein Information         | low-density lipoprotein receptor                                                       |
| UniProt Protein Name             | Low-density lipoprotein receptor                                                       |
| UniProt Gene Name                | <b>LDLR</b>                                                                            |
| UniProt Synonym Gene Names       | LDL receptor                                                                           |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hek293-cells-active-protein/ldlr-ldl-receptor/173570>