

LDLR Protein, Mouse (HEK293, His)

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| Cat. No.: | HY-P73272 |
| Synonyms: | Low-density lipoprotein receptor; LDLR; LDL Receptor |
| Species: | Mouse |
| Source: | HEK293 |
| Accession: | P35951 (A22-R790) |
| Gene ID: | 16835 |
| Molecular Weight: | Approximately 98-130 kDa |

PROPERTIES

AA Sequence

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| A A E D S C S R N E | | | |
| F | Q C R D G K C I A S | K W V C D G S P E C | P D G S D E S P E T |
| C M S V T C Q S N Q | F S C G G R V S R C | I P D S W R C D G Q | V D C E N D S D E Q |
| G C P P K T C S Q D | D F R C Q D G K C I | S P Q F V C D G D R | D C L D G S D E A H |
| C Q A T T C G P A H | F R C N S S I C I P | S L W A C D G D V D | C V D G S D E W P Q |
| N C Q G R D T A S K | G V S S P C S S L E | F H C G S S E C I H | R S W V C D G E A D |
| C K D K S D E E H C | A V A T C R P D E F | Q C A D G S C I H G | S R Q C D R E H D C |
| K D M S D E L G C V | N V T Q C D G P N K | F K C H S G E C I S | L D K V C D S A R D |
| C Q D W S D E P I K | E C K T N E C L D N | N G G C S H I C K D | L K I G S E C L C P |
| S G F R L V D L H R | C E D I D E C Q E P | D T C S Q L C V N L | E G S Y K C E C Q A |
| G F H M D P H T R V | C K A V G S I G Y L | L F T N R H E V R K | M T L D R S E Y T S |
| L L P N L K N V V A | L D T E V T N N R I | Y W S D L S Q K K I | Y S A L M D Q A P N |
| L S Y D T I I S E D | L H A P D G L A V D | W I H R N I Y W T D | S V P G S V S V A D |
| T K G V K R R T L F | Q E A G S R P R A I | V V D P V H G F M Y | W T D W G T P A K I |
| K K G G L N G V D I | H S L V T E N I Q W | P N G I T L D L S S | G R L Y W V D S K L |
| H S I S S I D V N G | G N R K T I L E D E | N R L A H P F S L A | I Y E D K V Y W T D |
| V I N E A I F S A N | R L T G S D V N L V | A E N L L S P E D I | V L F H K V T Q P R |
| G V N W C E T T A L | L P N G G C Q Y L C | L P A P Q I G P H S | P K F T C A C P D G |
| M L L A K D M R S C | L T E V D T V L T T | Q G T S A V R P V V | T A S A T R P P K H |
| S E D L S A P S T P | R Q P V D T P G L S | T V A S V T V S H Q | V Q G D M A G R G N |
| E E Q P H G M R | | | |

Biological Activity

Immobilized Mouse LDLR at 10 µg/mL (100 µL/well) can bind Biotinylated Mouse PCSK9. The ED₅₀ for this effect is 117.3 ng/mL.

Appearance

Lyophilized powder

Formulation

Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Endotoxin Level

<1 EU/µg, determined by LAL method.

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| Reconstitution | It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). |
| Storage & Stability | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage. |
| Shipping | Room temperature in continental US; may vary elsewhere. |

DESCRIPTION

Background

The LDLR protein plays a crucial role in binding to LDL, the primary lipoprotein responsible for transporting cholesterol in the bloodstream, and facilitating its internalization into cells through endocytosis. To undergo internalization, receptor-ligand complexes must first cluster into clathrin-coated pits. Additionally, LDLR interacts with various proteins, including DAB2 and LDLRAP1 through its NPXY motif, with the interaction impaired by tyrosine phosphorylation of the NPXY motif. It also interacts with ARRB1 and SNX17, further contributing to its functional versatility. Furthermore, LDLR interacts with the immature form of PCSK9, aiding in the regulation of LDL cholesterol levels.

Caution: Product has not been fully validated for medical applications. For research use only.

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