LDLR Protein, Human (Biotinylated, HEK293, Avi-His)

Cat. No.:	HY-P72392
Synonyms:	Low-Density Lipoprotein Receptor; LDL Receptor; LDLR
Species:	Human
Source:	HEK293
Accession:	P01130 (A22-R788)
Gene ID:	3949
Molecular Weight:	95-140 kDa

PROPERTIES

AA Sequence	A V G D R C E R N E F Q C Q D G K C I S Y K W V C D G S A E C Q D G S D E S Q E T C L S V T C K S G D F S C G G R V N R C I P Q F W R C D G Q V D C D N G S D E Q G C P P K T C S Q D E F R C H D G K C I S R Q F V C D S D R D C L D G S D E A S C P V L T C G P A S F Q C N S S T C I P Q L W A C D N D P D C E D G S D E W P Q R C R G L Y V F Q G D S S P C S A F E F H C L S G E C I H S S W R C D G G P D C K D K S D E E N C A V A T C R P D E F Q C S D G N C I H G S R Q C D R E Y D C K D M S D E V G C V N V T L C E G P N K F K C H S G E C I T L D K V C N M A R D C R D W S D E P I K E C G T N E C L D N N G G C S H V C N D L K I G Y E C L C P D G F Q L V A Q R R C E D I D E C Q D P D T C S Q L C V N L E G G Y K C Q C E E G F Q L D P H T K A C K A V G S I A Y L F F T N R H E V R K M T L D R S E Y T S L I P N L R N V V A L D T E V A S N R I Y W S D L S Q R M I C S T Q L D R A H G V S S Y D T V I S R D I Q A P D G L A V D W I H S N I Y W T D S V L G T V S V A D T K G V K R K T L F R E N G S K 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 Y S L V T E N I Q W P N G I T L D L L 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 K R L A H P F S L A V F E D K V F W T D I I N E A I F S A N R L T G S D V N L L A E N L L S P E D M V L F H N L T Q P R G V N W C E R T T L S N G G C Q Y L C L P A P Q I N P H S P K F T C A C P D G M L L A R D M R S C L T E A E A A V A T Q E T S T V R L K V S S T A V R T Q H T T T R P V P D T S R L P G A T P G L T T V E I V T M S H Q A L G D V A G R G N E K K P S S V R
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 50 mM HEPES, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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 serves as a crucial mediator in cholesterol homeostasis by binding to low-density lipoprotein (LDL), the primary cholesterol-carrying lipoprotein in plasma, and facilitating its cellular uptake through endocytosis. To enable internalization, receptor-ligand complexes must first cluster into clathrin-coated pits. Additionally, in the context of microbial infection, LDLR acts as a receptor for the hepatitis C virus within hepatocytes, although this interaction does not occur through a direct binding with viral proteins. This dual functionality underscores the diverse roles of LDLR in both cholesterol metabolism and the cellular response to viral infections.

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