**Proteins** 



## **Product** Data Sheet

# LDLR Protein, Human (HEK293, His)

Cat. No.: HY-P70235

Synonyms: rHuLow-density lipoprotein receptor/LDLR, His; Low-Density Lipoprotein Receptor; LDL

Receptor; LDLR

Species: Human Source: HEK293

Accession: P01130 (A22-R788)

3949 Gene ID:

Molecular Weight: 99-135 kDa

### **PROPERTIES**

AA Sequence			
An Jequence	AVGDRCERNE FQCQDGKCIS YKWVCDG	S A E C Q D G S D E S Q E	
	TCLSVTCKSG DFSCGGRVNR CIPQFWR	C D G Q V D C D N G S D E	
	QGCPPKTCSQ DEFRCHDGKC ISRQFVC	D S D R D C L D G S D E A	
	SCPVLTCGPA SFQCNSSTCI PQLWACD	N D P D C E D G S D E W P	
	QRCRGLYVFQ GDSSPCSAFE FHCLSGE	C I H S S W R C D G G P D	
	CKDKSDEENC AVATCRPDEF QCSDGNC	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	CIT LDKVCNMARD	
	CRDWSDEPIK ECGTNECLDN NGGCSHV	CND LKIGYECLCP	
	DGFQLVAQRR CEDIDECQDP DTCSQLC	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	VRK MTLDRSEYTS	
	LIPNLRNVVA LDTEVASNRI YWSDLSQ	RMI CSTQLDRAHG	
	VSSYDTVISR DIQAPDGLAV DWIHSNI	Y W T D S V L G T V S V A	
	DTKGVKRKTL FRENGSKPRA IVVDPVH	G F M Y W T D W G T P A K	
	IKKGGLNGVD IYSLVTENIQ WPNGITL	D L L S G R L Y W V D S K	
	LHSISSIDVN GGNRKTILED EKRLAHP	F S L A V F E D K V F W T	
	DIINEAIFSA NRLTGSDVNL LAENLLS	PED MVLFHNLTQP	
	RGVNWCERTT LSNGGCQYLC LPAPQIN	PHS PKFTCACPDG	
	MLLARDMRSC LTEAEAAVAT QETSTVR	L K V S S T A V R T Q H T	
	TTRPVPDTSR LPGATPGLTT VEIVTMS	H Q A L G D V A G R G N E	
	KKPSSVR		
Biological Activity	Immobilized Human PCSK9 at 2 $\mu$ g/mL (100 $\mu$ L/well) can bind Biotinylated Human LDLR. The ED <sub>50</sub> for this effect is 278.5 ng/mL, corresponding to a specific activity is 3580.66 Unit/mg.		
Appearance	Lyophilized powder.		
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 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 $\mu g/mL$ 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 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.

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

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