

Human LDLR Protein

Cat. No. LDL-HM201



Description

Source	Recombinant Human LDLR Protein is expressed from HEK293 with hFc (IgG1) tag at the C-terminus.
	It contains Ala22-Arg788.
Accession	P01130-1
Molecular Weight	The protein has a predicted MW of 110.72 kDa. Due to glycosylation, the protein migrates to 140-180 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 85% as determined by HPLC

Formulation and Storage

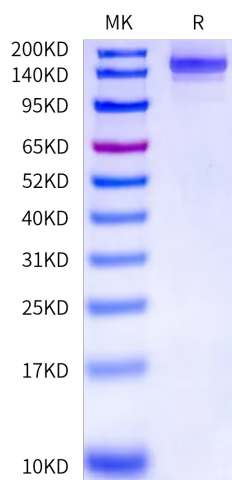
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

The low density lipoprotein receptor (LDLR) is the founding member of the LDL R family of widely expressed cell surface scavenger receptors. It is a cell-surface receptor that recognizes the apoprotein B100 which is embedded in the phospholipid outer layer of LDL particles.

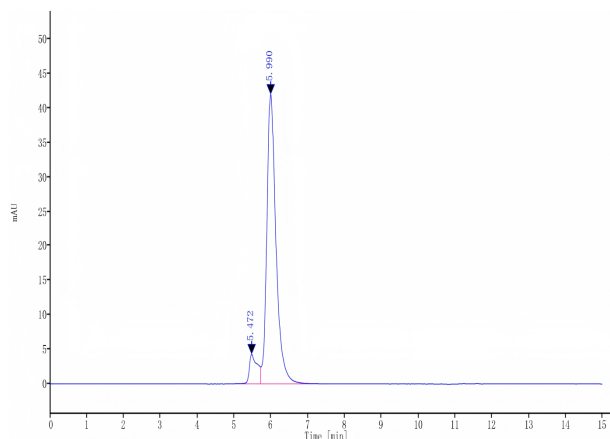
Assay Data

Bis-Tris PAGE



Human LDLR on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

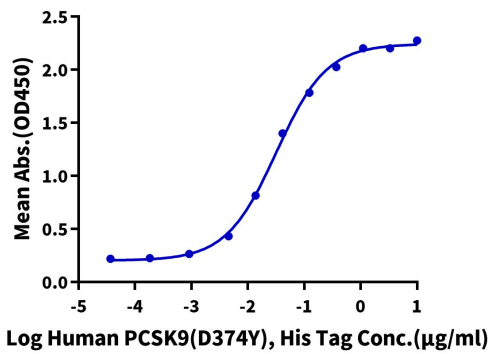


The purity of Human LDLR is greater than 85% as determined by SEC-HPLC.

Assay Data

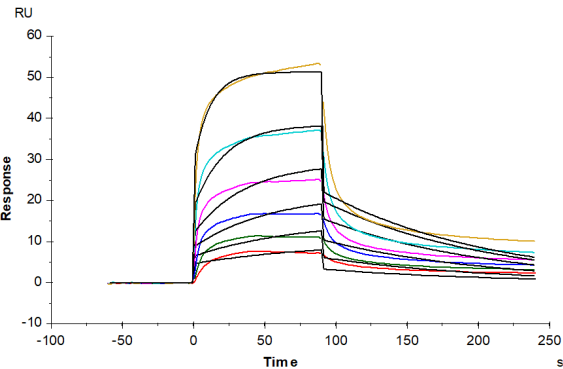
ELISA Data

Human LDLR, hFc Tag ELISA
0.1µg Human LDLR, hFc Tag Per Well



Immobilized Human LDLR, hFc Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human PCSK9 (D374Y), His Tag with the EC50 of 32.1ng/ml determined by ELISA.

SPR Data



Human LDLR, hFc Tag captured on CM5 Chip via Protein A can bind Human PCSK9, His Tag (Cat. PCS-HM190) with an affinity constant of 11.25 nM as determined in SPR assay (Biacore T200).