

Recombinant Human Low-density lipoprotein receptor/LDLR Protein

Catalog No.: RP00152 **Recombinant** **1 Publications**

Sequence Information

Species	Gene ID	Swiss Prot
Human	3949	P01130

Tags

C-His

Synonyms

LDLR; FH; FHC; LDLCQ2; low-density lipoprotein receptor;FH;FHC;LDLCQ2

Product Information

Source	Purification
HEK293 cells	> 90% by SDS-PAGE.

Calculated MW	Observed MW
85.62 kDa	120 , 140 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Background

The low density lipoprotein receptor (LDLR) family consists of cell surface proteins involved in receptor-mediated endocytosis of specific ligands. 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. Mutations in LDLR gene lead to the autosomal dominant disorder, familial hypercholesterolemia.

Basic Information

Description

Recombinant Human Low-density lipoprotein receptor/LDLR Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala22-Arg788) of human LDLR/LDL Receptor (Accession #NP_000518.1) fused with a 6xHis tag at the C-terminus.

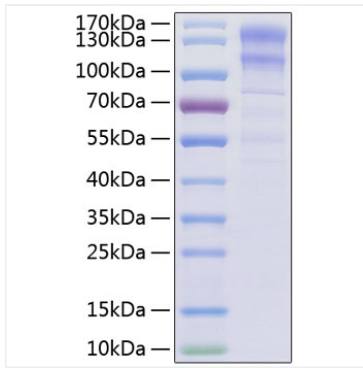
Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human LDLR at 5μg/mL (100 μL/well) can bind Human PCSK9 with a linear range of 0.5-294.7ng/mL.

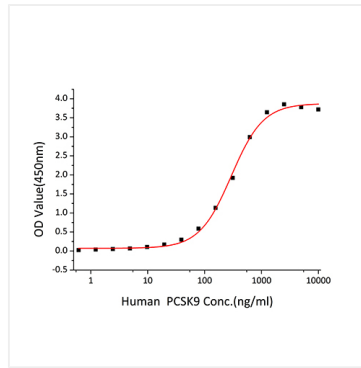
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human LDLR/LDL Receptor Protein was determined by SDS-PAGE with Coomassie Blue, showing bands at 120 kDa and 140 kDa.



Immobilized Human LDLR at 5 μ g/mL (100 μ L/well) can bind Human PCSK9 with a linear range of 0.5-294.7ng/mL.