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Recombinant Human Low-density lipoprotein receptor/LDLR Protein

Catalog No.: RP00152 Recombinant 2 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 % as determined 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 stablizer (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.

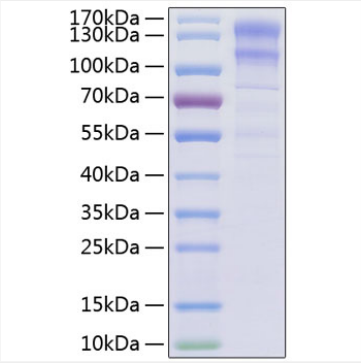
Basic Information

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 6×His tag at the C-terminus.

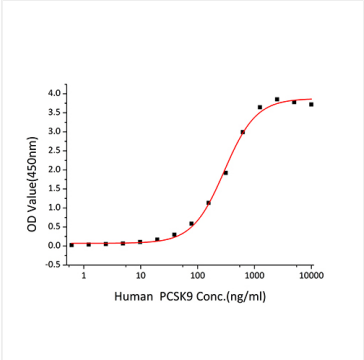
Bio-Activity
Measured by its binding ability in a functional ELISA. Immobilized Human LDLR at 5μg/mL (100 μL/well) can bind Human PCSK9 with a linear range of 0.5-294.7ng/mL.

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

Validation Data



Recombinant Human Low-density lipoprotein receptor/LDLR Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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