

Human LDL Receptor (His Tag) recombinant protein



Catalog Number: 500065

General Information

Protein Construction

A DNA sequence encoding the extracellular domain of human LDLR (NP_000518.1) precursor (Met 1-Arg 788) was expressed with a C-terminal polyhistidine tag.

Organism

Human

Expression Host

Human Cells

QC Testing

Activity

Measure by its ability to bind with human PCSK9 in a functional ELISA.

1. Immobilized human PCSK9 at 10 µg/ml (100 µl/well) can bind biotinylated recombinant human LDLR. The EC_{50} of biotinylated human LDLR is 0.61 µg/ml.

2. Immobilized mouse PCSK9 at 10 µg/ml (100 µl/well) can bind biotinylated recombinant human LDLR. The EC_{50} of biotinylated human LDLR is 0.12 µg/ml.

Purity

> 85 % as determined by SDS-PAGE

Endotoxin

< 1.0 EU per µg of the protein as determined by the LAL method

Stability

Samples are stable for up to twelve months from date of receipt at -70°C

Predicted N terminal

Ala 22

Molecular Mass

The secreted recombinant human LDLR comprises 777 amino acids with a predicted molecular mass of 86 kDa. As a result of different glycosylation, it migrates with the apparent molecular mass of 110-140 kDa in SDS-PAGE under reducing conditions corresponding to the mature and immature form.

Formulation

Lyophilized from sterile PBS, pH 7.4

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

Usage Guide

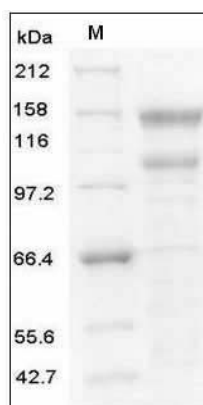
Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE



Human LDLR / LDL Receptor Protein (His Tag)
SDS-PAGE