

# Human VLDLR Protein

Cat. No. VDR-HM101



## Description

<b>Source</b>	Recombinant Human VLDLR Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Gly28-Ser797.
<b>Accession</b>	P98155-1
<b>Molecular Weight</b>	The protein has a predicted MW of 85.9 kDa. Due to glycosylation, the protein migrates to 115-125 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

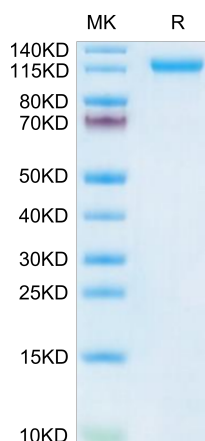
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-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

VLDLR cerebellar hypoplasia (VLDLR-CH) is characterized by non-progressive congenital ataxia that is predominantly truncal and results in delayed ambulation, moderate-to-profound intellectual disability, dysarthria, strabismus, and seizures. VLDLR-CH is inherited in an autosomal recessive manner. Carrier testing for at-risk relatives, prenatal testing for a pregnancy at increased risk and preimplantation genetic testing are possible when the pathogenic variants in a family are known.

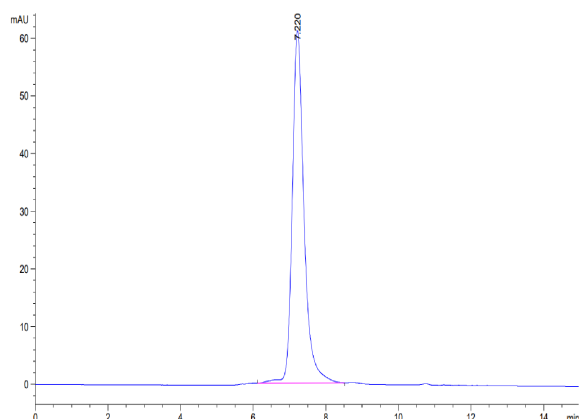
## Assay Data

### Bis-Tris PAGE



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

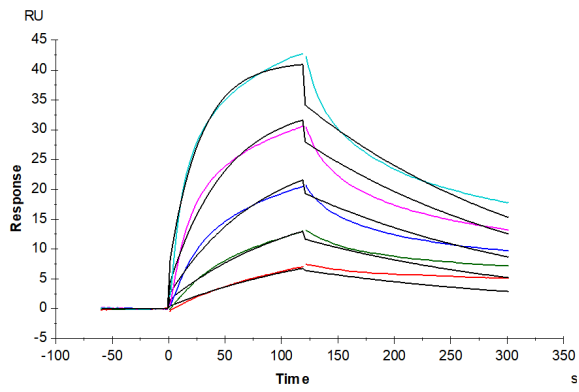
### SEC-HPLC



The purity of Human VLDLR is greater than 95% as determined by SEC-HPLC.

Assay Data

SPR Data



Human VLDLR, His Tag immobilized on CM5 Chip can bind Human PCSK9, His Tag with an affinity constant of 0.72 nM as determined in SPR assay (Biacore T200).