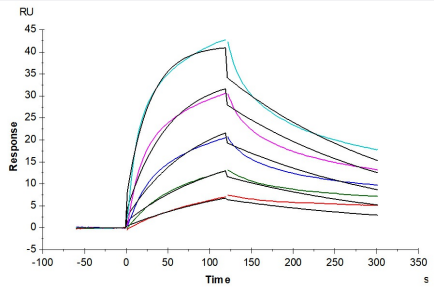
Bioactive HuPro®

VLDLR (Human) Recombinant Protein

Catalog # P9874 Size 100 ug

Applications

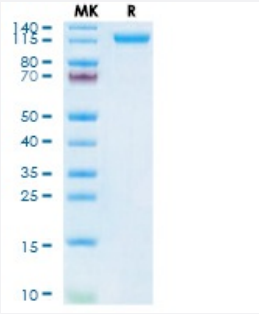


Surface Plasmon Resonance

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).

SEC-HPLC

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



Tris-Bis PAGE

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

Specification

Product Description	Human VLDLR (P98155-1, Gly28-Ser797) partial recombinant protein with His tag at C-Terminus expressed in HEK293 cells.

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Sequence	Gly28-Ser797
Host	Human
Theoretical MW (kDa)	85.90000000000001
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The affinity constant of 0.72 nM as determined in SPR assay (Biacore T200).
Quality Control Testing	SEC-HPLC and Tris-Bis PAGE SEC-HPLC The purity of Human VLDLR is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human VLDLR on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity SDS-PAGE SPR The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis

Applications

- Functional Study
- SDS-PAGE
- Surface Plasmon Resonance

  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).

Gene Info — VLDLR

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Entrez GeneID	7436
Protein Accession#	P98155-1
Gene Name	VLDLR
Gene Alias	CHRMQ1, FLJ35024, VLDLRCH
Gene Description	very low density lipoprotein receptor
Omim ID	192977 224050
Gene Ontology	Hyperlink
Gene Summary	The low density lipoprotein receptor (LDLR) gene family consists of cell surface proteins involved in receptor-mediated endocytosis of specific ligands. This gene encodes a lipoprotein receptor th at is a member of the LDLR family and plays important roles in VLDL-triglyceride metabolism and the reelin signaling pathway. Mutations in this gene cause VLDLR-associated cerebellar hypopla sia. Alternative splicing generates multiple transcript variants encoding distinct isoforms for this g ene. [provided by RefSeq
Other Designations	OTTHUMP00000020982|OTTHUMP00000020983|Very low-density lipoprotein receptor

Disease

- Alzheimer disease
- Cardiovascular Diseases
- Carotid Artery Diseases
- Cognition Disorders
- Coronary Disease
- Dementia
- Diabetes Complications
- Diabetes Mellitus
- Disease Progression
- Edema
- Genetic Predisposition to Disease
- Macular Degeneration
- Metabolic Syndrome X

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- Neoplasms
- Osteoporosis
- Psychiatric Status Rating Scales
- Schizophrenia
- Vision

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