

## Active Recombinant Human LRP5 protein, mFc-tagged

**Cat. No.** LRP5-284H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human LRP5 protein(Glu 644 - Gln 1263), fused with mFc tag, was expressed in HEK293.                                                                                                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | 644-1263 a.a.                                                                                                                                                                                                                                                                                                                            |
| <b>Form</b>             | Lyophilized from 0.22 µm filtered solution in 51 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5. Normally trehalose is added as protectant before lyophilization.                                                                                                                                                           |
| <b>Bio-activity</b>     | Immobilized Biotinylated Human Dkk-1, Fc,Avitag at 5 µg/mL (100 µL/well) on streptavidin precoated (0.5 µg/well) plate can bind Human LRP-5, Mouse IgG2a Fc Tag with a linear range of 1-31 ng/mL.Immobilized Human Dkk-1, His Tag at 5 µg/mL (100 µL/well) can bind Human LRP-5, Mouse IgG2a Fc Tag with a linear range of 5-156 ng/mL. |
| <b>Molecular Mass</b>   | This protein carries a mouse IgG2a Fc tag at the C-terminus.The protein has a calculated MW of 96.6 kDa. The protein migrates as 95-100 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.                                                                                                                                |
| <b>Proteinlength</b>    | Glu644-Gln1263                                                                                                                                                                                                                                                                                                                           |

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|                       |                                                                                                                                                                                                                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>      | Less than 0.1 EU per µg by the LAL method.                                                                                                                                                                                                                                          |
| <b>Purity</b>         | >95% as determined by SDS-PAGE.                                                                                                                                                                                                                                                     |
| <b>Storage</b>        | For long term, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. This product is stable after at: -20°C to -70°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution. |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.                                                                                                       |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                            |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | LRP5 low density lipoprotein receptor-related protein 5 [ Homo sapiens ]                                                                                                                                                                                                                                                   |
| <b>Official Symbol</b> | LRP5                                                                                                                                                                                                                                                                                                                       |
| <b>Synonyms</b>        | LRP5; low density lipoprotein receptor-related protein 5; EVR1, exudative vitreoretinopathy 1 , LRP7, OPPG, osteoporosis pseudoglioma syndrome; low-density lipoprotein receptor-related protein 5; BMND1; HBM; LR3; OPS; LRP-5; low density lipoprotein receptor-related protein 7; EVR1; EVR4; LRP7; OPPG; OPTA1; VBCH2; |
| <b>Gene ID</b>         | 4041                                                                                                                                                                                                                                                                                                                       |
| <b>mRNA Refseq</b>     | NM_002335                                                                                                                                                                                                                                                                                                                  |
| <b>Protein Refseq</b>  | NP_002326                                                                                                                                                                                                                                                                                                                  |
| <b>MIM</b>             | 603506                                                                                                                                                                                                                                                                                                                     |

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**UniProt ID**

O75197

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