

# Human LRP-5 Protein

Cat. No. LRP-HM205

## Description

<b>Source</b>	Recombinant Human LRP-5 Protein is expressed from HEK293 with hFc tag at the C-terminal. It contains Glu644-Gln1263.
<b>Accession</b>	O75197-1
<b>Molecular Weight</b>	The protein has a predicted MW of 96.51 kDa. Due to glycosylation, the protein migrates to 100-115 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE

## 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 tubes 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. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please avoid freeze-thaw cycles.

## Background

A role for low-density lipoprotein-related receptor 5 (LRP5) in human bone was first established by the identification of genetic alterations that led to dramatic changes in bone mass. Shortly thereafter, mutations that altered the function of the sclerostin (SOST) gene were also associated with altered human bone mass. Subsequent studies of LRP5 and sclerostin have provided important insights into the mechanisms by which these proteins regulate skeletal homeostasis.

## Assay Data

### Tris-Bis PAGE



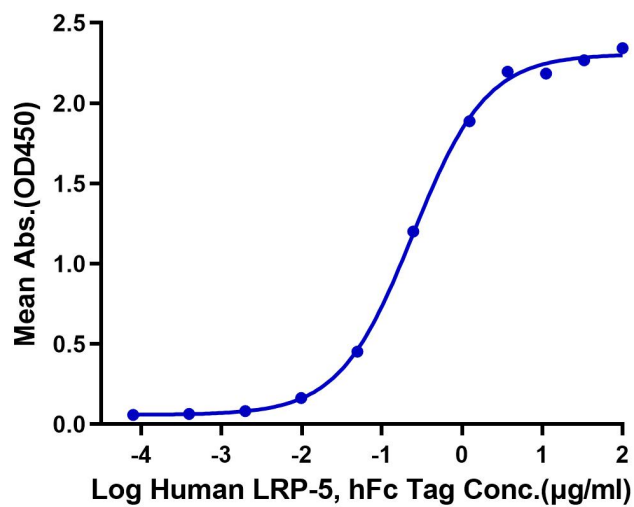
Human LRP-5 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### ELISA Data

Assay Data

**Human LRP-5, hFc Tag ELISA**

0.2µg Human DKK1, His Tag Per Well



Immobilized Human DKK1, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Human LRP-5, hFc Tag with the EC50 of 0.24µg/ml determined by ELISA.