

## LRP-5 Protein, Human, Recombinant (hFc)

### General Information

Synonyms:	EVR1;BMND1;BMND1OPTA1;LRP5;LRP7;OPPG;EVR4;OPTA1;OPS;HBM;VBCH2;LR3VBCH2;LRP-7;LR3;LRP-5
Protein Construction:	Glu644-Gln1263
Species:	Human
Expression Host:	HEK293 Cells
Accession:	O75197-1
Molecular Weight:	96.51 kDa (predicted). Due to glycosylation, the protein migrates to 100-115 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	<ol style="list-style-type: none"><li>1. Immobilized Human DKK1, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Human LPR-5, hFc Tag with the EC50 of 1.04µg/ml determined by ELISA.</li><li>2. Human LRP-5, hFc Tag captured on CM5 Chip via Protein A can bind Human DKK1, His Tag with an affinity constant of 0.28 µM as determined in SPR assay.</li></ol>
Purity:	> 95% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 µm filtered solution in PBS, 100 mM L-arginine (pH 7.4).

### Preparation and Storage

#### Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

Proteins are shipped with blue ice.

### Protein 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.

#### Reference

Williams BO. LRP5: From bedside to bench to bone. Bone. 2017 Sep;102:26-30. doi: 10.1016/j.bone.2017.03.044. Epub 2017 Mar 2 PMID: 28341377.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481