

LRP-5 Protein, Human, Recombinant (mFc)

General Information

Synonyms:	LRP7;EVR1;LR3VBCH2;HBM;LRP5;EVR4;VBCH2;OPS;BMND1OPTA1;LR3;OPPG;LRP-7;OPTA1;LRP-5;BMND1
Protein Construction:	Glu644-Gln1263
Species:	Human
Expression Host:	HEK293 Cells
Accession:	O75197-1
Molecular Weight:	96 kDa (predicted). Due to glycosylation, the protein migrates to 100-115 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Human DKK1, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Human LRP-5, mFc Tag with the EC50 of 0.11µg/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry 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.

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