

LRP-6 Protein, Human, Recombinant (mFc)

General Information

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| Synonyms: | DCAD2;LRP-6;FLJ90421;LRP6;FLJ90062 |
| Protein Construction: | Ala20-Pro630 |
| Species: | Human |
| Expression Host: | HEK293 Cells |
| Accession: | O75581-1 |
| Molecular Weight: | 95.32 kDa (predicted); 97-110 kDa (Bis-Tris PAGE, due to glycosylation) |

QC Testing

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| Biological Activity: | Immobilized Human DKK1, His Tag at 5 µg/mL (100 µL/well) on the plate. Dose response curve for Human LRP-6, mFc Tag with the EC50 of 0.58 µg/mL determined by ELISA. Immobilized Human SOST, His Tag at 2 µg/mL (100 µL/well) on the plate. Dose response curve for Human LRP-6, mFc Tag with the EC50 of 13.1 ng/mL determined by ELISA. Immobilized Human LRP-6, mFc Tag at 5 µg/mL (100 µL/well) on the plate. Dose response curve for Human R spondin 1, His Tag with the EC50 of 4.4 µg/mL determined by ELISA. |
| Purity: | > 90% 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 (pH 7.4). |

Preparation and Storage

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:

Proteins are shipped with blue ice.

Protein Background

Low-density lipoprotein receptor protein 6 (LRP6) is a Wnt co-receptor with essential functions in the Wnt/ β -catenin pathway, and mutations in LRP6 gene are linked to many complex human diseases, including metabolic syndrome, cancer, Alzheimer's disease and osteoporosis. LRP-6 interacts closely with PDGF receptor β and TGF- β receptor 1 at the cell membrane, suggesting that it may have roles in pathways other than WNT/ β -catenin.

Reference

Ren S, et al. LRP-6 is a coreceptor for multiple fibrogenic signaling pathways in pericytes and myofibroblasts that are inhibited by DKK-Proc Natl Acad Sci U S A. 2013 Jan 22;110(4):1440-5. doi: 10.1073/pnas.1211179110. Epub 2013 Jan 9. Erratum in: Proc Natl Acad Sci U S A. 2016 Nov 14;: PMID: 23302695; PMCID: PMC3557093.

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