

LRP-6 Protein, Human, Recombinant (Avi & His), Biotinylated

General Information

Synonyms:	ADCAD2;STHAG7
Protein Construction:	A DNA sequence encoding the Human LRP6 (O75581) (Met1-Pro630) was expressed with a C-terminal polyhistidine tag followed by an AVI tag. The expressed protein was biotinylated in vivo by the Biotin-Protein ligase (BirA enzyme) which is co-expressed.
Species:	Human
Expression Host:	HEK293 Cells
Accession:	O75581
Molecular Weight:	72.22 kDa (predicted); 79.8 kDa (reducing condition)

QC Testing

Biological Activity:	<p>1. Loaded LRP-6 Protein, Human, Recombinant (Avi & His), Biotinylated (Cat#TMPY-07087) on SA Biosensor, can bind DKK1 Protein, Human, Recombinant (His) (Cat#TMPY-00775) with an affinity constant of 90.6 nM as determined in BLI assay (Sartorius Octet RED384) (Routinely tested).
</p> <p>2. Loaded LRP-6 Protein, Human, Recombinant (Avi & His), Biotinylated (Cat#TMPY-07087) on SA Biosensor, can bind RSPO1 Protein, Human, Recombinant (His) (Cat#TMPY-01147) with an affinity constant of 4.25 nM as determined in BLI assay (Sartorius Octet RED384) (QC tested).
</p> <p>3. Loaded LRP-6 Protein, Human, Recombinant (Avi & His), Biotinylated (Cat#TMPY-07087) on SA Biosensor, can bind SOST/Sclerostin Protein, Human, Recombinant (His) (Cat#TMPY-00925) with an affinity constant of 39.5 nM as determined in BLI assay (Sartorius Octet RED384) (Routinely tested).
</p> <p>4. Loaded LRP-6 Protein, Human, Recombinant (Avi & His), Biotinylated (Cat#TMPY-07087) on SA Biosensor, can bind DKK1 Protein, Human, Recombinant (hFc) (Cat#TMPY-05479) with an affinity constant of 54.3 nM as determined in BLI assay (Sartorius Octet RED384) (Routinely tested).</p>
Purity:	≥ 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from sterile PBS, pH 7.4. Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hardcopy of datasheet or the lot-specific COA.

Preparation and Storage

Reconstitution:	Please refer to the lot-specific COA.
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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

Lipoprotein receptor-related protein 6 (LRP6) binds to Wnt ligands to transduce signal by stabilization of beta-catenin, which has been involved in the regulation of embryonic development and metabolism. Low density lipoprotein (LDL) receptor-related protein-6 (LRP6) is an important co-receptor of Wnt pathway, which plays a predominant role in the development and progression of colorectal cancer. This gene, termed LDL receptor-related protein 6 (LRP6), encodes a transmembrane protein that has 71% identity and is structurally similar to the protein encoded by LRP5, a proposed candidate gene for type 1 diabetes located on human chromosome 11q13. LRP6 maps to human chromosome 12p11-p13.

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