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LRP6 Protein (AA 1394-1613) (His tag)



Image



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Overview	
Quantity:	1 mg
Target:	LRP6
Protein Characteristics:	AA 1394-1613
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LRP6 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)
Product Details	
Sequence:	CQRMLCPRMK GDGETMTNDY VVHSPASVPL GYVPHPSSLS GSLPGMSRGK SMISSLSIMG GSSGPPYDRA HVTGASSSSS SSTKGTYFPA ILNPPPSPAT ERSHYTMEFG YSSNSPSTHR SYSYRPYSYR HFAPPTTPCS TDVCDSDYAP SRRMTSVATA KGYTSDVNYD SEPVPPPPTP RSQYLSAEEN YESCPPSPYT ERSYSHHLYP PPPSPCTDSS Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Mouse Lrp6 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. State-of-the-art algorithm used for plasmid design (Gene synthesis).

experts in the lab will ensure that you receive a correctly folded protein.

This protein is a made to order protein and will be made for the first time for your order. Our

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its

specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

the Expasy's protparam tool to determine the absorption coefficient of each protein.

- 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Endotoxin Level:

Protein is endotoxin free.

Grade:

Crystallography grade

Target Details

Target:	LRP6	
Alternative Name:	Lrp6 (LRP6 Products)	
Background:	Component of the Wnt-Fzd-LRP5-LRP6 complex that triggers beta-catenin signaling through	
	inducing aggregation of receptor-ligand complexes into ribosome-sized signalsomes. Cell-	
	surface coreceptor of Wnt/beta-catenin signaling, which plays a pivotal role in bone formation.	

	The Wnt-induced Fzd/LRP6 coreceptor complex recruits DVL1 polymers to the plasma	
	membrane which, in turn, recruits the AXIN1/GSK3B-complex to the cell surface promoting the	
	formation of signalsomes and inhibiting AXIN1/GSK3-mediated phosphorylation and	
	destruction of beta-catenin. Required for posterior patterning of the epiblast during gastrulation	
	(By similarity). {ECO:0000250, ECO:0000269 PubMed:15142971}.	
Molecular Weight:	24.7 kDa Including tag.	
UniProt:	088572	
Pathways:	WNT Signaling, Tube Formation	
Application Details		
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies	
	as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee	
	though.	
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the	
	recombinant protein with the default tag will be insoluble our protein lab may suggest a higher	
	molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible	
	options with you in detail to assure that you receive your protein of interest.	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.	
Handling Advice:	Avoid repeated freeze-thaw cycles.	
Storage:	-80 °C	
Storage Comment:	Store at -80°C.	
Expiry Date:	Unlimited (if stored properly)	

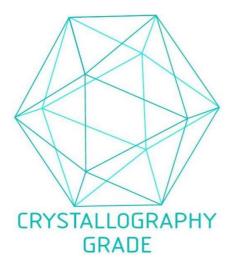


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process