# antibodies -online.com





## LRP5 Protein (AA 1408-1615) (His tag)



## Image



Go to Product page

$\sim$	
( )\/△	rview
$\cup$	1 410 44

Quantity:	1 mg
Target:	LRP5
Protein Characteristics:	AA 1408-1615
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LRP5 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)
Product Details	
Sequence:	QRVVCQRYAG ANGPFPHEYV SGTPHVPLNF IAPGGSQHGP FTGIACGKSM MSSVSLMGGR
	GGVPLYDRNH VTGASSSSSS STKATLYPPI LNPPPSPATD PSLYNMDMFY SSNIPATARP
	YRPYIIRGMA PPTTPCSTDV CDSDYSASRW KASKYYLDLN SDSDPYPPPP TPHSQYLSAE
	DSCPPSPATE RSYFHLFPPP PSPCTDSS
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Human LRP5 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>
	This protein is a made to order protein and will be made for the first time for your order. Our
	experts in the lab will ensure that you receive a correctly folded protein.

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

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

### Purification:

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

- 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.

specific reference buffer.

Grade:

Crystallography grade

### **Target Details**

Target:	LRP5
Alternative Name:	LRP5 (LRP5 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 Matindused End / DDG corporator complex reconsite DV/ 1 making care to the other con-
	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. Appears be required for postnatal control of vascular regression in
	the eye. Required for posterior patterning of the epiblast during gastrulation.
	{ECO:0000269 PubMed:11336703, ECO:0000269 PubMed:11448771,
	ECO:0000269 PubMed:14727154, ECO:0000269 PubMed:14731402,
	ECO:0000269 PubMed:15778503}.
Molecular Weight:	23.2 kDa Including tag.
UniProt:	075197
Pathways:	WNT Signaling, Stem Cell Maintenance, Positive Regulation of fat Cell Differentiation
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
	guarantee though.
Comment:	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