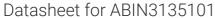
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# LGR6 Protein (AA 23-967) (rho-1D4 tag)



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### Overview

Quantity:	1 mg
Target:	LGR6
Protein Characteristics:	AA 23-967
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LGR6 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), ELISA, Crystallization (Crys), SDS-PAGE (SDS)

### **Product Details**

Sequence:

GSDPQPGPGR PACPAPCHCQ EDGIMLSADC SELGLSVVPA DLDPLTAYLD LSMNNLTELQ
PGLFHHLRFL EELRLSGNHL SHIPGQAFSG LHSLKILMLQ SNQLRGIPAE ALWELPSLQS
LRLDANLISL VPERSFEGLS SLRHLWLDDN ALTEIPVRAL NNLPALQAMT LALNHIRHIP
DYAFQNLTSL VVLHLHNNRI QHVGTHSFEG LHNLETLDLN YNELQEFPLA IRTLGRLQEL
GFHNNNIKAI PEKAFMGSPL LQTIHFYDNP IQFVGRSAFQ YLSKLHTLSL NGATDIQEFP
DLKGTTSLEI LTLTRAGIRL LPPGVCQQLP RLRILELSHN QIEELPSLHR CQKLEEIGLR
HNRIKEIGAD TFSQLGSLQA LDLSWNAIRA IHPEAFSTLR SLVKLDLTDN QLTTLPLAGL
GGLMHLKLKG NLALSQAFSK DSFPKLRILE VPYAYQCCAY GICASFFKTS GQWQAEDFHP
EEEEAPKRPL GLLAGQAENH YDLDLDELQM GTEDSKPHPS VQCSPVPGPF KPCEHLFESW
GIRLAVWAIV LLSVLCNGLV LLTVFASGPS PLSPVKLVVG AMAGANALSG ISCGLLASVD
ALTYGQFAEY GARWESGLGC QATGFLAVLG SEASVLLLTL AAVQCSISVT CVRAYGKAPS
PGSVRAGALG CLALAGLAAA LPLASVGEYG ASPLCLPYAP PEGRPAALGF AVALVMMNSL

CFLVVAGAYI KLYCDLPRGD FEAVWDCAMV RHVAWLIFAD GLLYCPVAFL SFASMLGLFP VTPEAVKSVL LVVLPLPACL NPLLYLLFNP HFRDDLRRLW PSPRSPGPLA YAAAGELEKS SCDSTQALVA FSDVDLILEA SEAGQPPGLE TYGFPSVTLI SRHQPGATRL EGNHFVESDG TKFGNPQPPM KGELLLKAEG ATLAGCGSSV GGALWPSGSL FASHL

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 Lgr6 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).

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 specific reference buffer.

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:

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

- 1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.
- 2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.
- 3. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. Eluate fractions are analyzed by SDS-PAGE and

## **Product Details**

Product Details	
	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:	LGR6
Alternative Name:	Lgr6 (LGR6 Products)
Background:	Receptor for R-spondins that potentiates the canonical Wnt signaling pathway and acts as a marker of multipotent stem cells in the epidermis. Upon binding to R-spondins (RSPO1, RSPO2, RSPO3 or RSPO4), associates with phosphorylated LRP6 and frizzled receptors that are activated by extracellular Wnt receptors, triggering the canonical Wnt signaling pathway to increase expression of target genes. In contrast to classical G-protein coupled receptors, does not activate heterotrimeric G-proteins to transduce the signal (By similarity). {ECO:0000250}.
Molecular Weight:	103.2 kDa Including tag.
UniProt:	Q3UVD5
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

# Handling

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)