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COL4a2 Protein (AA 1481-1707) (His tag)



Image



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Quantity:	1 mg
Target:	COL4a2 (COL4A2)
Protein Characteristics:	AA 1481-1707
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This COL4a2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)
Product Details	
Sequence:	VSIGYLLVKH SQTDQEPMCP VGMNKLWSGY SLLYFEGQEK AHNQDLGLAG SCLARFSTMP
	FLYCNPGDVC YYASRNDKSY WLSTTAPLPM MPVAEEEIKP YISRCSVCEA PAVAIAVHSQ
	DTSIPHCPAG WRSLWIGYSF LMHTAAGDEG GGQSLVSPGS CLEDFRATPF IECNGGRGTC
	HYFANKYSFW LTTIPEQNFQ STPSADTLKA GLIRTHISRC QVCMKNL
	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 Col4a2 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

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:	COL4a2 (COL4A2)	
Alternative Name:	Col4a2 (COL4A2 Products)	
Background:	Type IV collagen is the major structural component of glomerular basement membranes (GBM), forming a 'chicken-wire' meshwork together with laminins, proteoglycans and	
	entactin/nidogen. {ECO:0000269 PubMed:3597383}., Canstatin, a cleavage product	

Target Details

corresponding to the collagen alpha 2(IV) NC1 domain, possesses both anti-angiogenic and
anti-tumor cell activity. It inhibits proliferation and migration of endothelial cells, reduces
mitochondrial membrane potential, and induces apoptosis. Specifically induces Fas-dependent
apoptosis and activates procaspase-8 and -9 activity. Ligand for alphavbeta3 and alphavbeta5
integrins (By similarity). {ECO:0000250}.

Molecular Weight:

26.0 kDa Including tag.

UniProt:

P08122

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

Unlimited (if stored properly)

Handling

Expiry Date:

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.



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