

Datasheet for ABIN3132625
COL4a2 Protein (AA 184-1707) (His tag)



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Overview

Quantity:	1 mg
Target:	COL4a2 (COL4A2)
Protein Characteristics:	AA 184-1707
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:	GEPGEPGLVG YQGPPGRPGP IGQMGPMPGAP GRPGPPGPPG PKGQPGNRGL GFYQGKGEKG DIGQPGNGI PSDITLVGPT TSTIHPDLYK GEKGDEGEQG IPGVISKGEE GIMGFPGIRG FPGLDGEKGV VGQKGSRGLD GFQGPSGPRG PKGERGEQGP PGPSVYSPHP SLAKGARGDP GFQGAHGEPP SRGEPGEPGT AGPPGPSVGD EDSMRGLPGE MGPKGFSGEP GSPARYLGPP GADGRPGPQG VPGPAGPPGP DGFLFGLKGS EGRVGYPGPS GFPGTRGQKG WKGEAGDCQC GQVIGGLPGL PGPKGFPGVN GELGKKGDQG DPGLHGIPGF PGFKGAPGVA GAPGPKGIK DSRTITTKGE RGQPGIPGVH GMKGDDGVPG RDGLDGFPGP PGPPGDGIK PPGDAGLPV PGTKGFPGDI GPPGQGLPGP KGERGFPGDA GLPGPPGFPG PPGPPGTPGQ RDCDTGVKRP IGGGQQVVVQ PGCIEGPTGS PGQPGPPGPT GAKGVRGMPG FPGASGEQGL KGFPDPPGRE GFPGPPGFMG PRGSKGTTGL PGPDGPPGPI GLPGPAGPPG DRGIPGEVLG AQPGRGDAG LPGQPGLKGL PGETGAPGFR GSQGMPPGMPG LKGQPGFPGP SGQPGQSGPP GQHGFPGTPG REGPLGQPGS PGLGGLPGDR GEPGDPGVPG PVGMKGLSGD RGDAGMSGER GHPGSPGFKG
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MAGMPGIPGQ KDRGSPGMD GFQMLGLKG RQGFPGTKGE AGFFGVPGLK GLPGEPGVKG
NRGDRGPPGP PPLILPGMKD IKGEKGDEGP MGLKGYLGLK GIQMPGVPG VSGFPLPGR
PGFIKGVKGD IGVPGTPLP GFPVSGPPG ITGFPFTGS RGEKGTGVA GVFGTGTPTG
DFGDIGDVTD LPGSPGLKE RGITGIPGLK GFFGEKGAAG DIGFPGITGM AGAQSPGLK
GQTGFPLTG LQGPQGEPR IGIPGDKGDF GWPGVPLPG FPGIRGISGL HGLPGTKGFP
GSPGVDAHGD PGFPGPTGDR GDRGEANTLP GPVGVPQKG ERGTPGERGP AGSPGLQGFP
GISPPSNISG SPGDVGAPGI FGLQGYQGP GPPGNALPG IKGDEGSSGA AGFPGQKGVV
GDPGPQGQPG VLGLPGEKGP KGEQGMGNT GPSGAVGDRG PKGPKGDQGF PGAPGSMGSP
GIPGIPQKIA VQPGTLPGQ RRGLPGALGE IGPQGPPGDP GFRGAPGKAG PQGRGGVSAV
PGFRGDQGPM GHQGPVGQEG EPGRPGSPGL PGMPGRSVSI GYLLVKHSQT DQPEMCPVGM
NKLWSGYSL YFEGQEKAHN QDLGLAGSCL ARFSTMPFLY CNPGDVCYYA SRNDKSYWLS
TTAPLPMMPV AEEEIKPYIS RCSVCEAPAV AIAVHSQDTS IPHCPAGWRS LWIGYSFLMH
TAAGDEGGGQ SLVSPGSCLE DFRATPFIEC NGGRGTCHYF ANKYSFWLTT IPEQNFQSTP
SADTLKAGLI RTHISRCQVC MKNL

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 receipt 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.

Product Details

	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:	<p>Two step purification of proteins expressed in baculovirus infected SF9 insect cells:</p> <ol style="list-style-type: none">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:	COL4a2 (COL4A2)
Alternative Name:	Col4a2 (COL4A2 Products)
Background:	<p>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 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}.</p>
Molecular Weight:	150.0 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 guarantee though.
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Application Details

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.
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Restrictions:	For Research Use only
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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)