

Datasheet for ABIN3091848

COL4a2 Protein (AA 184-1712) (His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	COL4a2 (COL4A2)
Protein Characteristics:	AA 184-1712
Origin:	Human
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 FQGPPGRPGH VGQMGPVGAP GRPGLPPGPPG PKGQQGNRGL GFYGVKGEKG DVGQPGPNGI PSDTLHPIIA PTGVTFHPDQ YKGEKGSEGE PGIRGISLKG EEGIMGFPG RGYPGLSGEK GSPGQKGSRG LDGYQGPDPG RPKGEAGDP GPPGLPAYSP HPSLAKGARG DPGFPGAQGE PGSQGEPGDP GLPGPPGLSI GDGDQRRGLP GEMGPKGFIG DPGIPALYGG PPGPDGKRGP PGPPGLPGPP GPDGFLFGLK GAKGRAGFPG LPGSPGARGP KGWKGDAGEC RCTEGDEAIK GLPGLPGPKG FAGINGEPGR KGDRGDPGQH GLPGFPGLKG VPGNIGAPGP KGAKGDSRTI TTKGERGQPG VPGVPGMKGD DGSPGRDGLD GFPLPGPPG DGIKPPGDP GYPGIPGTKG TPGEMLPPGL GLPGLKGQRG FPGDAGLPGP PGFLGPPGPA GTPGQIDCDT DVKRAVGDDR QEAIQPGCIG GPKGLPGLPG PPGPTGAKGL RGIPGFAGAD GPGPRGLPG DAGREGFPGP PGFIGPRGSK GAVGLPGPDG SPGPIGLPGP DGPPGERGLP GEVLGAQPGP RGDAGVPGQP GLKGLPGDRG PPGFRGSQGM PGMPGLKGQP GLPGSPGQPG LYGPPGLHGF PGAPGQEGPL GLPGIPGREG LPGDRGDPGD TGAPGPVGMK GLSGDRGDAG FTGEQGHGPGS
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PGFKGIDGMP GTPGLKGDRG SPGMDGFQGM PGLKGRPGFP GSKGEAGFFG IPGLKGLAGE
PGFKGSRGDP GPPGPPPVIL PGMKDIKGEK GDEGPMGLKG YLGAKGIQGM PGIPGLSGIP
GLPGRPGHIK GVKGDIGVPG IPGLPGFPGV AGPPGITGFP GFIGSRGDKG APGRAGLYGE
IGATGDFGDI GDTINLPGRP GLKGERGTTG IPGLKGFFGE KGTEGDIGFP GITGVTGVQG
PPGLKGQTGF PGLTGPPGSQ GELGRIGLPG GKGDDGWPGA PGLPGFPGLR GIRGLHGLPG
TKGFPGSPGS DIHGDPGFPG PPGERGDPE ANTLPGPVGV PGQKGDQGAP GERGPPGSPG
LQGFGITPP SNISGAPGDK GAPGIFGLKG YRGPPGPPGS AALPGSKGDT GNPGAPGTPG
TKGWAGDSGP QGRPGVFGLP GEKGPRGEQG FMGNTGPTGA VGDRGPKGPK GDPGFPGAPG
TVGAPGIAGI PQKIAVQPGT VGPQGRRGPP GAPGEMGPQG PPGEPPFRGA PGKAGPQGRG
GVSAVPGFRG DEGPIGHQGP IGQEGAPGRP GSPGLPGMPG RSVSIGYLLV KHSQTDQEPM
CPVGMNKLWS GYSLLYFEGQ EKAHNQDLGL AGSCLARFST MPFLYCNP GD VCYASRNDK
SYWLSTTAPL PMMPVAEDEI KPYISRCSVC EAPAIAIVH SQDVSIHPCH AGWRSLWIGY
SFLMHTAAGD EGGGQSLVSP GSCLEDFRAT PFIECNGGRG TCHYYANKYS FWLTITPEQS
FQGSPSADTL KAGLIRTHIS RCQVCMKNL

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.
- Human 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:	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., 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.
Molecular Weight:	150.1 kDa Including tag.
UniProt:	P08572

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

Application Details

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)

Images



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