

Datasheet for ABIN3091866

## COL5A1 Protein (AA 38-1605) (His tag)



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### 1 Image

#### Overview

Quantity:	1 mg
Target:	COL5A1
Protein Characteristics:	AA 38-1605
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This COL5A1 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

#### Product Details

Sequence:	<p>QPADLLKVLDFHNLDPGITKTTGFCATRRSSKGPDVAYRVTKDAQLSAPT KQLYPASAFP</p> <p>EDFSILTTVKAKKGSQAFLVSIYNEQGIQQIGLELGRSPVFLYEDHTGKPGPEDYPLFRG</p> <p>INLSDGKWHRIALSVHKKNVTLILDCKKKT TKFLDRSDHPMIDINGIIVFGTRILDEEVF</p> <p>EGDIQQLLFVSDHRAAYDYCEHYSPDCDTA VPDTPQSQDP NPDEYYTEGD GEGETYYYYEY</p> <p>PYYEDPEDLGKEPTPSKKPV EAAKETTEVP EELTPTPTEA APMPETSEGA GKEEDVGIGD</p> <p>YDYVPSEDYYTPSPYDDLTYGEGEENPDQP TDPGAGAEIPTSTADTSNSS NPAPPPGEGA</p> <p>DDLEGEFTEE TIRNLDENYYDPYYDPTSSP SEIGPGMPAN QDTIYEGIGG PRGEKGQKGE</p> <p>PAIIEPGMLIEGPPGPEGPA GLPGPPGTMGPTGQVGDPE RGPPGRPGLP GADGLPGPPP</p> <p>TMLMLPFRFGGGDAGSKGPMVSAQESQAQAILQQARLAL RGPAGPMGLT GRPGVPVPPP</p> <p>SGGLKGEPGDVGPQGPRGVQ GPPGPAGKPGRRGRAGSDGARMPGQTGPK GDRGFDGLAG</p> <p>LPGEKGHRGD PGPSGPPGPPGDDGERGDDG EVGPRGLPGE PGPRGLLGPK GPPGPPGPPG</p> <p>VTGMDGQPGPKGNVGPQGEPPPGQQGNPQAQGLPGPQGAIGPPGEKGPLGKPLPGMPG</p>
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ADGPPGHPGK EGPPGEKGGQ GPPGPQGPIG YPGPRGVKGA DGIRGLKGTK GEKGEDGFPG  
FKGDMGIKGD RGEIGPPGPR GEDGPEGPKG RGGPNGDPGP LGPPGEKGL GVPGLPGYPG  
RQGPKGSIGF PGFPGANGEK GGRGTPGKPG PRGQRGPTGP RGERGPRGIT GKPGPKGNSG  
GDGPAGPPGE RGPNGPQGPT GFPGPKGPPG PPGKDGLPGH PGQRGETGFQ GKTGPPGPPG  
VVGPPQPTGE TGPMGERGHP GPPGPPGEQG LPGLAGKEGT KGDPGPAGLP GKDGPPGLRG  
FPGDRGLPGP VGALGLKGNE GPPGPPGAG SPGERGPAGA AGPIGIPGRP GPQGGPPGAG  
EKGAPGEKGP QGPAGRDGLQ GPVGLPGPAG PVGPPGEDGD KGEIGEPGQK GSKGDKGEQG  
PPGPTGPQGP IGQPGPSGAD GEPGPRGQQG LFGQKGDEGP RGFPGPPGPV GLQGLPGGP  
EKGETGDVQ MGPPGPPGPR GPSGAPGADG PQGPPGGIGN PGAVGEKGEPE GEAGEPGLPG  
EGGPPGPKGE RGEKGESGPS GAAGPPGPKG PPGDDGPKGS PGPVGFPGDP GPPGEPGAG  
QDGPPGDKGD DGEPGQTGSP GPTGEPGSPG PPGKRGPPGP AGPEGRQGEK GAKGEAGLEG  
PPGKTGPIGP QGAPGKPGPD GLRGIPGPVG EQGLPGSPGP DGPPGPMGPP GLPGLKGDSD  
PKGEKGHPGL IGLIGPPGEQ GEKGRGLPG PQGSSGPKGE QGITGPSGPI GPPGPPGLPG  
PPGPKGAKGS SGPTGPKGEA GHPGPPGPPG PPGEVIQPLP IQASRTRRNI DASQLLDDGN  
GENYVDYA

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

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### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human COL5A1 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

## Product Details

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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:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: <ol style="list-style-type: none"><li>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.</li><li>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.</li></ol>
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

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Target:	COL5A1
Alternative Name:	COL5A1 ( <a href="#">COL5A1 Products</a> )
Background:	Type V collagen is a member of group I collagen (fibrillar forming collagen). It is a minor connective tissue component of nearly ubiquitous distribution. Type V collagen binds to DNA, heparan sulfate, thrombospondin, heparin, and insulin.
Molecular Weight:	154.4 kDa Including tag.
UniProt:	<a href="#">P20908</a>
Pathways:	<a href="#">Growth Factor Binding</a>

## Application Details

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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

## Application Details

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receive your protein of interest.

Restrictions: For Research Use only

## Handling

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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

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