Datasheet for ABIN3135028

COL5A2 Protein (AA 27-1227) (His tag)

1 Image

Go to Product page

Overview

Quantity:	1 mg
Target:	COL5A2
Protein Characteristics:	AA 27-1227
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This COL5A2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	QEQENDEYDE EIACTQHGQM YLNRDIWKPS PCQICVCDNG AILCDKIECP EVLNCANPIT PTGECCPVCP QTGGGDTSFG RGRKGQKGEP GLVPVVTGIR GRPGPAGPPG SQGPRGDRGP KGRPGPRGPQ GIDGEPGVPG QPGAPGPPGH PSHPGPDGMS RPFSAQMAGL DEKSGLGSQV GLMPGSVGPV GPRGPQGLQG QQGGVGPAGP PGEPGEPGPM GPIGSRGPEG PPGKPGEDGE PGRNGNTGEV GFSGSPGARG FPGAPGLPGL KGHRGHKGLE GPKGEIGAPG AKGEAGPTGP MGAMGPLGPR GMPGERGRLG PQGAPGKRGA HGMPGKPGPM GPLGIPGSSG FPGNPGMKGE AGPTGARGPE GPQGQRGETG PPGPAGSQGL PGAVGTDGTP GAKGPTGSAG TSGPPGLAGP PGSPGPQGST GPQGIRGQSG DPGVPGFKGE AGPKGEPGPH GIQGPIGPPG EEGKRGPRGD PGTVGPPGPM GERGAPGNRG FPGSDGLPGP KGAQGERGPV GSSGPKGGQG DPGRPGEPGL PGARGLTGNP GVQGPEGKLG PLGAPGEDGR PGPPGSIGIR GQPGSMGLPG PKGSSGDLGK PGEAGNAGVP GQRGAPGKDG EVGPSGPVGP PGLAGERGEQ GPPGPTGFQG LPGPPGPPGE GGKAGDQGVP GEPGAVGPLG PRGERGNPGE RGEPGITGLP GEKGMAGGHG PDGPKGNPGP

	TGTIGDTGPP GLQGMPGERG IAGTPGPKGD RGGIGEKGAE GTAGNDGARG LPGPLGPPGP AGPTGEKGEP GPRGLVGPPG SRGNPGSRGE NGPTGAVGFA GPQGPDGQPG VKGEPGEPGQ KGDAGSPGPQ GLAGSPGPHG PHGVPGLKGG RGTQGPPGAT GFPGSAGRVG PPGPAGAPGP AGPAGEPGKE GPPGLRGDPG SHGRVGDRGP AGPPGSPGDK GDPGEDGQPG PDGPPGPAGT TGQRGIVGMP GQRGERGMPG LPGPAGTPGK VGPTGATGDK GPPGPVGPPG SNGPVGEPGP EGPAGNDGTP GRDGAVGERG DRGDPGPAGL PGSQGAPGTP GPVGAPGDAG QRGEPGSRGP VGPPGRAGKR GLPGPQGPRG DKGDNGDRGD RGQKGHRGFT GLQGLPGPPG PNGEQGSAGI PGPFGPRGPP GPVGPSGKEG NPGPLGPIGP PGVRGSVGEA GPEGPPGEPG PPGPPGPPGH L **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 Col5a2 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:	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.

Product Details

	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:	COL5A2
Alternative Name:	Col5a2 (COL5A2 Products)
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. Type V collagen is a key determinant in the assembly of tissue-specific matrices. {ECO:0000250|UniProtKB:P05997, ECO:0000269|PubMed:1297453, ECO:0000269|PubMed:7704020, ECO:0000269|PubMed:9642685}.
Molecular Weight:	113.2 kDa Including tag.
UniProt:	Q3U962

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
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

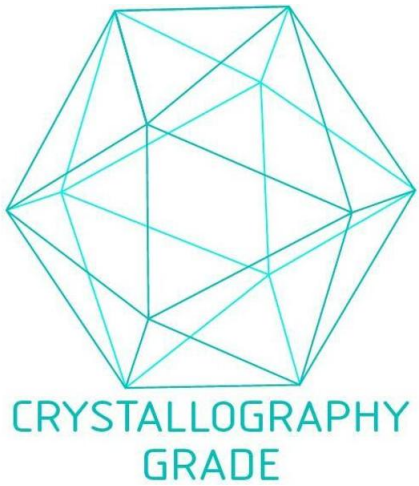

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process