

Datasheet for ABIN3088387

## A2ML1 Protein (AA 18-1454) (His tag)



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### Overview

Quantity:	1 mg
Target:	A2ML1
Protein Characteristics:	AA 18-1454
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This A2ML1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

### Product Details

Sequence:	<p>EELPNYLVTL PARLNFPSVQ KVCLDLSPGY SDVKFTVTLE TKDKTQKLE YSGLKKRHLH</p> <p>CISFLVPPPA GGTEEVATIR VSGVGNNISF EEKKKVLIR QGNGTFVQTD KPLYTPGQQV</p> <p>YFRIVTMDSN FVPVNDKYSM VELQDPNSNR IAQWLEVVPE QGIVDLFQQL APEAMLGTYT</p> <p>VAVAEGKTFG TFSVEEYVLP KFKVEVVEPK ELSTVQESFL VKICCRYTYG KPMLGAVQVS</p> <p>VCQKANTYWY REVEREQLPD KCRNLGQTD KTGCF SAPVD MATFDLIGYA YSHQINIVAT</p> <p>VVEEGTGVEA NATQNIYISP QMGSMTFEDT SNFYHPNPF SGKIRVRGHD DSFLKNHLVF</p> <p>LVIYGTNGTF NQTLVTDNNG LAPFTLETSG WNGTDVSLEG KFQMEDLVYN PEQVPRYYQN</p> <p>AYLHLRPFYS TTRSFLGIHR LNGPLKCGQP QEVLVDYYID PADASPDQEI SFSYYLIGKG</p> <p>SLVMEGQKHL NSKKKGLKAS FLSLTFTSR LAPDPSLVIY AIFPSGGVVA DKIQFSVEMC</p> <p>FDNQVSLGFS PSQQLPGA EV ELQLQAAPGS LCA LRAVDES VLLLRPDREL SNRSVYGMFP</p> <p>FWYGHYPYQV AEYDQCPVSG PWD FPQPLID PMPQGHSSQR SIIWRPSFSE GTDLFSFFRD</p> <p>VGLKILSNAK IKKPVDCSHR SPEYSTAMGA GGGHPEAFES STPLHQAEDS QVRQYFPETW</p>
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LWDLFPIGNS GKEAVHVTVP DAITEWKAMS FCTSQSRGFG LSPTVGLTAF KPFFVDLTLP  
YSVVRGESFR LTATIFNYLK DCIRVQTDLA KSHEYQLESW ADSQTSSCLC ADDAKTHHWN  
ITAVKLGHIN FTISTKILDS NEPCGGQKGF VPQKGRSDTL IKPVLVKPEG VLVEKTHSSL  
LCPKGKVASE SVSLELPVDI VPDSTKAYVT VLGDIMG TAL QNL DGLVQMP SGCGEQNMVL  
FAPIIYVLQY LEKAGLLTEE IRSRAVG FLE IGYQKELMYK HSNGSYSAFG ERDGNGNTWL  
TAFVTKCFGQ AQKFIFIDPK NIQDALKWMA GNQLPSGCYA NVGNLLHTAM KGGVDDEVSL  
TAYVTAALLE MGKDVDDPMV SQGLRCLKNS ATSTTNLYTQ ALLAYIFSLA GEMDIRNILL  
KQLDQQAIS GESIYWSQKP TPSSNASPWS EPAAVDVELT AYALLAQLTK PSLTQKEIAK  
ATSIVAWLAK QHNAYGGFSS TQDTVVALQA LAKYATTAYM PSEEINLVVK STENFQRTFN  
IQSVNRLVFQ QDTLPNVPGM YTL EASGQGC VYVQTVLRYN ILPPTNMKTF SLSVEIGKAR  
CEQPTSPRSL TLTHTSYVG SRSSSNMAIV EVKMLSGFSP MEGTNQLLLQ QPLVKKVEFG  
TDTLNIYLDE LIKNTQTYTF TISQSVLVTN LKPATIKVYD YYLPDEQATI QYSDPCE

**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 A2ML1 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.

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.

## Product Details

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

Target:	A2ML1
Alternative Name:	A2ML1 ( <a href="#">A2ML1 Products</a> )
Background:	Is able to inhibit all four classes of proteinases by a unique 'trapping' mechanism. This protein has a peptide stretch, called the 'bait region' which contains specific cleavage sites for different proteinases. When a proteinase cleaves the bait region, a conformational change is induced in the protein which traps the proteinase. The entrapped enzyme remains active against low molecular weight substrates (activity against high molecular weight substrates is greatly reduced). Following cleavage in the bait region a thioester bond is hydrolyzed and mediates the covalent binding of the protein to the proteinase (By similarity). Displays inhibitory activity against chymotrypsin, papain, thermolysin, subtilisin A and, to a lesser extent, elastase but not trypsin. May play an important role during desquamation by inhibiting extracellular proteases. {ECO:0000250 UniProtKB:P01023, ECO:0000269 PubMed:16298998}.
Molecular Weight:	160.3 kDa Including tag.
UniProt:	<a href="#">A8K2U0</a>

## 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:	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)