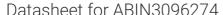
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## **Uromodulin Protein (UMOD) (AA 25-587) (His tag)**



**Image** 



#### Overview

Quantity:	1 mg
Target:	Uromodulin (UMOD)
Protein Characteristics:	AA 25-587
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Uromodulin protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

### **Product Details**

Sequence:

DTSEARWCSE CHSNATCTED EAVTTCTCQE GFTGDGLTCV DLDECAIPGA HNCSANSSCV
NTPGSFSCVC PEGFRLSPGL GCTDVDECAE PGLSHCHALA TCVNVVGSYL CVCPAGYRGD
GWHCECSPGS CGPGLDCVPE GDALVCADPC QAHRTLDEYW RSTEYGEGYA CDTDLRGWYR
FVGQGGARMA ETCVPVLRCN TAAPMWLNGT HPSSDEGIVS RKACAHWSGH CCLWDASVQV
KACAGGYYVY NLTAPPECHL AYCTDPSSVE GTCEECSIDE DCKSNNGRWH CQCKQDFNIT
DISLLEHRLE CGANDMKVSL GKCQLKSLGF DKVFMYLSDS RCSGFNDRDN RDWVSVVTPA
RDGPCGTVLT RNETHATYSN TLYLADEIII RDLNIKINFA CSYPLDMKVS LKTALQPMVS
ALNIRVGGTG MFTVRMALFQ TPSYTQPYQG SSVTLSTEAF LYVGTMLDGG DLSRFALLMT
NCYATPSSNA TDPLKYFIIQ DRCPHTRDST IQVVENGESS QGRFSVQMFR FAGNYDLVYL
HCEVYLCDTM NEKCKPTCSG TRF

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 UMOD 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.
- 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

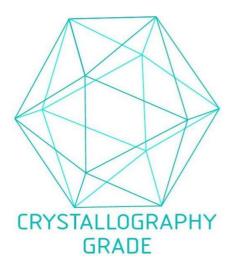
## Target Details

Target:	Uromodulin (UMOD)
Alternative Name:	UMOD (UMOD Products)
Background:	Uromodulin: Functions in biogenesis and organization of the apical membrane of epithelial cells
	of the thick ascending limb of Henle's loop (TALH), where it promotes formation of complex
	filamentous gel-like structure that may play a role in the water barrier permeability (Probable).
	May serve as a receptor for binding and endocytosis of cytokines (IL-1, IL-2) and TNF
	(PubMed:3498215). Facilitates neutrophil migration across renal epithelia (PubMed:20798515).
	{ECO:0000269 PubMed:20798515, ECO:0000269 PubMed:3498215, ECO:0000305}.,
	Uromodulin, secreted form: In the urine, may contribute to colloid osmotic pressure, retards
	passage of positively charged electrolytes, prevents urinary tract infection and inhibits
	formation of liquid containing supersaturated salts and subsequent formation of salt crystals.
	{ECO:0000250 UniProtKB:Q91X17, ECO:0000305}.
Molecular Weight:	62.4 kDa Including tag.
UniProt:	P07911
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:	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	
	Liquid
Handling Format: Buffer:	Liquid  100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Format: Buffer:	
Format:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.

Expiry Date:

Unlimited (if stored properly)

**Images** 



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