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# Datasheet for ABIN3075059 UFM1 Protein (AA 1-83) (His tag)

Image



#### Overview

Quantity:	1 mg
Target:	UFM1
Protein Characteristics:	AA 1-83
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This UFM1 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys)
Product Details	
Sequence:	MSKVSFKITL TSDPRLPYKV LSVPESTPFT AVLKFAAEEF KVPAATSAII TNDGIGINPA
	QTAGNVFLKH GSELRIIPRD RVG
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Human UFM1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> <li>State of the art elegarithm used for pleamid design (Cane synthesis)</li> </ul>
	<ul> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> <li>This protein is a made to order protein and will be made for the first time for your order. Our</li> </ul>
	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

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Product Details	
	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:
	<ol> <li>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> </ol>
	<ol> <li>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:	UFM1
Alternative Name:	UFM1 (UFM1 Products)
Background:	Ubiquitin-like modifier which can be covalently attached via an isopeptide bond to substrate
	proteins as a monomer or a lysine-linked polymer. The so-called ufmylation, requires the UFM1-
	activating E1 enzyme UBA5, the UFM1-conjugating E2 enzyme UFC1, and the UFM1-ligase E3
	enzyme UFL1 (PubMed:15071506, PubMed:20018847). This post-translational modification on
	lysine residues of proteins may play a crucial role in a number of cellular processes. TRIP4

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## Target Details

ufmylation may for instance play a role in nuclear receptors-mediated transcription
(PubMed:25219498). Other substrates may include DDRGK1 with which it may play a role in the
cellular response to endoplasmic reticulum stress (Probable).
{EC0:0000269 PubMed:15071506, EC0:0000269 PubMed:20018847,
ECO:0000269 PubMed:25219498, ECO:0000305 PubMed:23152784}.
9.9 kDa Including tag.
P61960
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.
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.
For Research Use only
Liquid
100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Avoid repeated freeze-thaw cycles.

Expiry Date:

Storage Comment:

Unlimited (if stored properly)

Store at -80°C.



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

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