antibodies.com

# Datasheet for ABIN3096040 TOR1A Protein (AA 21-332) (His tag)





#### Overview

Quantity:	1 mg
Target:	TOR1A
Protein Characteristics:	AA 21-332
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TOR1A protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

### Product Details

Sequence:	VEPISLGLAL AGVLTGYIYP RLYCLFAECC GQKRSLSREA LQKDLDDNLF GQHLAKKIIL NAVFGFINNP KPKKPLTLSL HGWTGTGKNF VSKIIAENIY EGGLNSDYVH LFVATLHFPH ASNITLYKDQ LQLWIRGNVS ACARSIFIFD EMDKMHAGLI DAIKPFLDYY DLVDGVSYQK
	AMFIFLSNAG AERITDVALD FWRSGKQRED IKLKDIEHAL SVSVFNNKNS GFWHSSLIDR NLIDYFVPFL PLEYKHLKMC IRVEMQSRGY EIDEDIVSRV AEEMTFFPKE ERVFSDKGCK TVFTKLDYYY DD
	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 TOR1A Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3096040 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

Product Details	
	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
Torget Detaile	
Target Details	
Target:	TOR1A
Alternative Name:	TOR1A (TOR1A Products)

Background: Protein with chaperone functions important for the control of protein folding, processing,

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN3096040 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

	stability and localization as well as for the reduction of misfolded protein aggregates. Involved
	in the regulation of synaptic vesicle recycling, controls STON2 protein stability in collaboration
	with the COP9 signalosome complex (CSN). In the nucleus, may link the cytoskeleton with the
	nuclear envelope, this mechanism seems to be crucial for the control of nuclear polarity, cell
	movement and, specifically in neurons, nuclear envelope integrity. Participates in the cellular
	trafficking and may regulate the subcellular location of multipass membrane proteins such as
	the dopamine transporter SLC6A3, leading to the modulation of dopamine neurotransmission.
	In the endoplasmic reticulum, plays a role in the quality control of protein folding by increasing
	clearance of misfolded proteins such as SGCE variants or holding them in an intermediate state
	for proper refolding. May have a redundant function with TOR1B in non-neural tissues.
	{EC0:0000269 PubMed:15505207, EC0:0000269 PubMed:16361107,
	ECO:0000269 PubMed:17428918, ECO:0000269 PubMed:18167355,
	ECO:0000269 PubMed:18827015, ECO:0000269 PubMed:19339278,
	ECO:0000269 PubMed:20169475, ECO:0000269 PubMed:23569223}.
Molecular Weight:	36.7 kDa Including tag.
UniProt:	014656
Pathways:	SARS-CoV-2 Protein Interactome

## 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	
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.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN3096040 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

### Handling

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

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 4/4 | Product datasheet for ABIN3096040 | 09/11/2023 | Copyright antibodies-online. All rights reserved.