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TOR1A Protein (AA 21-333) (His tag)



Image



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Overview

Quantity:	1 mg
Target:	TOR1A
Protein Characteristics:	AA 21-333
Origin:	Mouse
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:

VEPISLSLAL AGVLTTYISY PRLYCLFAEC CGQMRSLSRE ALQKDLDNKL FGQHLAKKVI LNAVSGFLSN PKPKKPLTLS LHGWTGTGKN FASKIIAENI YEGGLNSDYV HLFVATLHFP HASNITQYKD QLQMWIRGNV SACARSIFIF DEMDKMHAGL IDAIKPFLDY YDVVDEVSYQ KAIFIFLSNA GAERITDVAL DFWKSGKQRE EIKLRDMEPA LAVSVFNNKN SGFWHSSLID RNLIDYFVPF LPLEYKHLKM CIRVEMQSRG YEVDEDIISK VAEEMTFFPK EEKVFSDKGC KTVFTKLDYY LDD

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 Tor1a 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:	TOR1A
Alternative Name:	Tor1a (TOR1A Products)
Background:	Protein with chaperone functions important for the control of protein folding, processing,

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.
{ECO:0000269 PubMed:16364897, ECO:0000269 PubMed:17200151,
ECO:0000269 PubMed:17428918, ECO:0000269 PubMed:18827015,
ECO:0000269 PubMed:20457914}.

Molecular Weight:	36.7 kDa Including tag.
UniProt:	Q9ER39
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:	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

Handling

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