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## Datasheet for ABIN3136453 LONP1 Protein (AA 66-949) (His tag)

Image



## Overview

Quantity:	1 mg
Target:	LONP1
Protein Characteristics:	AA 66-949
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LONP1 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

## Product Details

Sequence:	LWDSGNRGGS DETSEGGAED GATASTGEGP VVTALAPMTV PDVFPHLPLI AITRNPVFPR
	FIKIVEVKNK KLVELLRRKV RLAQPYVGVF LKRDDNNESD VVESLDEIYH TGTFAQIHEM
	QDLGDKLRMI VTGHRRIHIS RQLEVEPEGL EPEAEKQKSR RKLKRGKKEV EDELGPKPQL
	EMVTEAATDT SKEVLMVEVE NVAHEDFQVT EEVKALTAEI VKTIRDIIAL NPLYRESVLQ
	MMQAGQRVVD NPIYLSDMGA ALTGAESHEL QDVLEETNIL KRLYKALSLL KKEFELSKLQ
	QRLGREVEEK IKQTHRKYLL QEQLKIIKKE LGLEKDDKDA IEEKFRERLR ELVVPKHVMD
	VVDEELSKLA LLDNHSSEFN VTRNYLDWLT SIPWGRQSDE NLDLARAQAV LEEDHYGMED
	VKKRVLEFIA VSQLRGSTQG KILCFHGPPG VGKTSIARSI ARALGREYFR FSVGGMTDVA
	EIKGHRRTYV GAMPGKIIQC LKKTKTENPL VLIDEVDKIG RGYQGDPSSA LLELLDPEQN
	ANFLDHYLDV PVDLSKVLFI CTANVIDTIP EPLRDRMEMI NVSGYVAQEK LAIAERYLVP
	QARTLCGLDE SKAQLSAAVL TLLIKQYCRE SGVRNLQKQV EKVLRKAAYK IVSGEAQTVQ
	VTPENLQDFV GKPVFTVERM YEVTPPGVVM GLAWTAMGGS TLFVETSLRR PQPSGSKEDK

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	DGSLEVTGQL GDVMKESARI AYTYARAFLM EQDPENDFLV TSHIHLHVPE GATPKDGPSA
	GCTIVTALLS LALGQPVLQN LAMTGEVSLT GKVLPVGGIK EKTIAAKRAG VTCIILPAEN
	RKDYSDLAPF ITEGLEVHFV EHYRDIFPIA FPRREHREAL AVER
	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>Mouse Lonp1 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>
	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:
	<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>
	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

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Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade
Target Details	
Target:	LONP1
Alternative Name:	Lonp1 (LONP1 Products)
Background: Molecular Weight: UniProt:	<ul> <li>ATP-dependent serine protease that mediates the selective degradation of misfolded, unassembled or oxidatively damaged polypeptides as well as certain short-lived regulatory proteins in the mitochondrial matrix. May also have a chaperone function in the assembly of inner membrane protein complexes. Participates in the regulation of mitochondrial gene expression and in the maintenance of the integrity of the mitochondrial genome. Binds to mitochondrial promoters and RNA in a single-stranded, site-specific, and strand-specific manner. May regulate mitochondrial DNA replication and/or gene expression using site-specific, single-stranded DNA binding to target the degradation of regulatory proteins binding to adjacent sites in mitochondrial promoters. {ECO:0000255 HAMAP-Rule:MF_03120, ECO:0000269 PubMed:12657466}.</li> <li>99.8 kDa Including tag.</li> <li>Q8CGK3</li> </ul>
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

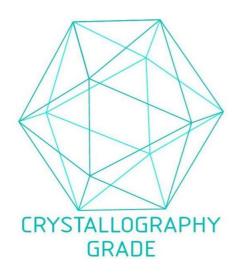
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.

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Handling Advice:	Avoid repeated freeze-thaw cycles.
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