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## Datasheet for ABIN3094547 PIAS3 Protein (AA 2-628) (His tag)

Image



#### Overview

Quantity:	1 mg
Target:	PIAS3
Protein Characteristics:	AA 2-628
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PIAS3 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

#### Product Details

PVHPDVTMKP LPFYEVYGEL IRPTTLASTS SQRFEEAHFT FALTPQQVQQ ILTSREVLPG AKCDYTIQVQ LRFCLCETSC PQEDYFPPNL FVKVNGKLCP LPGYLPPTKN GAEPKRPSRP
INITPLARLS ATVPNTIVVN WSSEFGRNYS LSVYLVRQLT AGTLLQKLRA KGIRNPDHSR
ALIKEKLTAD PDSEVATTSL RVSLMCPLGK MRLTVPCRAL TCAHLQSFDA ALYLQMNEKK
PTWTCPVCDK KAPYESLIID GLFMEILSSC SDCDEIQFME DGSWCPMKPK KEASEVCPPP
GYGLDGLQYS PVQGGDPSEN KKKVEVIDLT IESSSDEEDL PPTKKHCSVT SAAIPALPGS
KGVLTSGHQP SSVLRSPAMG TLGGDFLSSL PLHEYPPAFP LGADIQGLDL FSFLQTESQH
YGPSVITSLD EQDALGHFFQ YRGTPSHFLG PLAPTLGSSH CSATPAPPPG RVSSIVAPGG
ALREGHGGPL PSGPSLTGCR SDIISLD
Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a

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#### Product Details

	special request, please contact us.
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Human PIAS3 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>
	<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

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#### Target Details

Target:	PIAS3
Alternative Name:	PIAS3 (PIAS3 Products)
Background:	Functions as an E3-type small ubiquitin-like modifier (SUMO) ligase, stabilizing the interaction
	between UBE2I and the substrate, and as a SUMO-tethering factor. Plays a crucial role as a
	transcriptional coregulation in various cellular pathways, including the STAT pathway and the
	steroid hormone signaling pathway. Involved in regulating STAT3 signaling via inhibiting STAT3
	DNA-binding and suppressing cell growth. Enhances the sumoylation of MTA1 and may
	participate in its paralog-selective sumoylation (PubMed:21965678, PubMed:9388184).
	Sumoylates CCAR2 which promotes its interaction with SIRT1 (PubMed:25406032). Diminishes
	the sumoylation of ZFHX3 by preventing the colocalization of ZFHX3 with SUMO1 in the
	nucleus (PubMed:24651376). {ECO:0000269 PubMed:21965678,
	ECO:0000269 PubMed:24651376, ECO:0000269 PubMed:25406032,
	ECO:0000269 PubMed:9388184}.
Molecular Weight:	68.8 kDa Including tag.
UniProt:	Q9Y6X2
Pathways:	JAK-STAT Signaling

### 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.

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#### 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

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