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Datasheet for ABIN3136955 TNPO2 Protein (AA 1-887) (His tag)

1 Image



Overview

Quantity:	1 mg
Target:	TNP02
Protein Characteristics:	AA 1-887
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TNPO2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	MDWQPDEQGL QQVLQLLKDS QSPNTATQRI VQDKLKQLNQ FPDFNNYLIF VLTRLKSEDE
	PTRSLSGLIL KNNVKAHYQS FPPPVADFIK QECLNNIGDA SSLIRATIGI LITTIASKGE
	LQMWPELLPQ LCNLLNSEDY NTCEGAFGAL QKICEDSSEL LDSDALNRPL NIMIPKFLQF
	FKHCSPKIRS HAIACVNQFI MDRAQALMDN IDTFIEHLFA LAVDDDPEVR KNVCRALVML
	LEVRIDRLIP HMHSIIQYML QRTQDHDENV ALEACEFWLT LAEQPICKEV LASHLVQLIP
	ILVNGMKYSE IDIILLKGDV EEDEAVPDSE QDIKPRFHKS RTVTLTHEAE RPDSSEDAED
	DDDDDALSDW NLRKCSAAAL DVLANVFREE LLPHLLPLLK GLLFHPEWVV KESGILVLGA
	IAEGCMQGMV PYLPELIPHL IQCLSDKKAL VRSIACWTLS RYAHWVVSQP PDMHLKPLMT
	ELLKRILDGN KRVQEAACSA FATLEEEACT ELVPYLSYIL DTLVFAFGKY QHKNLLILYD
	AIGTLADSVG HHLNQPEYIQ KLMPPLIQKW NELKDEDKDL FPLLECLSSV ATALQSGFLP
	YCEPVYQRCV TLVQKTLAQA MMYTQHPEQY EAPDKDFMIV ALDLLSGLAE GLGGHVEQLV
	ARSNIMTLLF QCMQDSMPEV RQSSFALLGD LTKACFIHVK PCIAEFMPIL GTNLNPEFIS

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	VCNNATWAIG EICMQMGAEM QPYVQMVLNN LVEIINRPNT PKTLLENTAI TIGRLGYVCP
	QEVAPMLQQF IRPWCTSLRN IRDNEEKDSA FRGICMMIGV NPGGVVQDFI FFCDAVASWV
	SPKDDLRDMF YKILHGFKDQ VGEENWQQFS EQFPPLLKER LAAFYGV
	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 Tnpo2 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:
	 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

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Product Details	
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Talget Details	
Target:	TNP02
Alternative Name:	Tnpo2 (TNPO2 Products)
Background:	Probably functions in nuclear protein import as nuclear transport receptor. Serves as receptor
	for nuclear localization signals (NLS) in cargo substrates. Is thought to mediate docking of the
	importin/substrate complex to the nuclear pore complex (NPC) through binding to nucleoporin
	and the complex is subsequently translocated through the pore by an energy requiring, Ran-
	dependent mechanism. At the nucleoplasmic side of the NPC, Ran binds to the importin, the
	importin/substrate complex dissociates and importin is re-exported from the nucleus to the
	cytoplasm where GTP hydrolysis releases Ran. The directionality of nuclear import is thought to
	be conferred by an asymmetric distribution of the GTP- and GDP-bound forms of Ran between
	the cytoplasm and nucleus (By similarity). {ECO:0000250}.
Molecular Weight:	101.4 kDa Including tag.
UniProt:	Q99LG2
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