

Datasheet for ABIN7555813

Transportin 1 Protein (TNPO1) (AA 1-898) (His tag)



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Quantity:	1 mg
Target:	Transportin 1 (TNPO1)
Protein Characteristics:	AA 1-898
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Transportin 1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details	
Purpose:	Custom-made recombinat TNP01 Protein expressed in mammalien cells.
Sequence:	MVWDRQTKME YEWKPDEQGL QQILQLLKES QSPDTTIQRT VQQKLEQLNQ YPDFNNYLIF
	VLTKLKSEDE PTRSLSGLIL KNNVKAHFQN FPNGVTDFIK SECLNNIGDS SPLIRATVGI
	LITTIASKGE LQNWPDLLPK LCSLLDSEDY NTCEGAFGAL QKICEDSAEI LDSDVLDRPL
	NIMIPKFLQF FKHSSPKIRS HAVACVNQFI ISRTQALMLH IDSFIENLFA LAGDEEPEVR
	KNVCRALVML LEVRMDRLLP HMHNIVEYML QRTQDQDENV ALEACEFWLT LAEQPICKDV
	LVRHLPKLIP VLVNGMKYSD IDIILLKGDV EEDETIPDSE QDIRPRFHRS RTVAQQHDED
	GIEEEDDDDD EIDDDDTISD WNLRKCSAAA LDVLANVYRD ELLPHILPLL KELLFHHEWV
	VKESGILVLG AIAEGCMQGM IPYLPELIPH LIQCLSDKKA LVRSITCWTL SRYAHWVVSQ
	PPDTYLKPLM TELLKRILDS NKRVQEAACS AFATLEEEAC TELVPYLAYI LDTLVFAFSK
	YQHKNLLILY DAIGTLADSV GHHLNKPEYI QMLMPPLIQK WNMLKDEDKD LFPLLECLSS
	VATALQSGFL PYCEPVYQRC VNLVQKTLAQ AMLNNAQPDQ YEAPDKDFMI VALDLLSGLA

EGLGGNIEQL VARSNILTLM YQCMQDKMPE VRQSSFALLG DLTKACFQHV KPCIADFMPI LGTNLNPEFI SVCNNATWAI GEISIQMGIE MQPYIPMVLH QLVEIINRPN TPKTLLENTA ITIGRLGYVC PQEVAPMLQQ FIRPWCTSLR NIRDNEEKDS AFRGICTMIS VNPSGVIQDF IFFCDAVASW INPKDDLRDM FCKILHGFKN QVGDENWRRF SDQFPLPLKE RLAAFYGV Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made to order protein from design to production by highly experienced protein experts.
- · Protein expressed in mammalien cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- · 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 try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

Target:

custom-made

Transportin 1 (TNPO1)

Target Details

Alternative Name:	TNP01 (TNP01 Products)
Background:	Transportin-1 (Importin beta-2) (Karyopherin beta-2) (M9 region interaction protein)
	(MIP),FUNCTION: Functions in nuclear protein import as nuclear transport receptor. Serves as
	receptor for nuclear localization signals (NLS) in cargo substrates (PubMed:24753571). May
	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). Involved in nuclear import of M9-containing proteins. In vitro, binds directly to the M9 region of the heterogeneous nuclear ribonucleoproteins (hnRNP), A1 and A2 and mediates their nuclear import. Involved in hnRNP A1/A2 nuclear export. Mediates the nuclear import of ribosomal proteins RPL23A, RPS7 and RPL5 (PubMed:11682607). In vitro, mediates nuclear import of H2A, H2B, H3 and H4 histones (By similarity). In vitro, mediates nuclear import of SRP19 (PubMed:11682607). Mediates nuclear import of ADAR/ADAR1 isoform 1 and isoform 5 in a RanGTP-dependent manner (PubMed:19124606, PubMed:24753571). {ECO:0000250|UniProtKB:Q8BFY9, ECO:0000269|PubMed:211682607, ECO:0000269|PubMed:19124606, ECO:0000269|PubMed:24753571, ECO:0000269|PubMed:8986607, ECO:0000269|PubMed:9687515}., FUNCTION: (Microbial infection) In case of HIV-1 infection, binds and mediates the nuclear import of HIV-1 Rev. {ECO:0000269|PubMed:16704975}.

In addition to the applications listed above we expect the protein to work for functional studies

Molecular Weight:	102.4 kDa
UniProt:	Q92973
Pathways:	PI3K-Akt Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway,
	Neurotrophin Signaling Pathway, Cellular Glucan Metabolic Process, Protein targeting to
	Nucleus, CXCR4-mediated Signaling Events

Application Details

Application Notes:

Handling Advice:

Storage:

	as well. As the protein has not been tested for functional studies yet we cannot offer a	
	guarantee though.	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Buffer:	The buffer composition is at the discretion of the manufacturer.	

Avoid repeated freeze-thaw cycles.

-80 °C

Handling

Storage Comment:	Store at -80°C.
Expiry Date:	12 months