

Datasheet for ABIN7555833
TNPO2 Protein (AA 1-897) (His tag)



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Overview

Quantity:	1 mg
Target:	TNPO2
Protein Characteristics:	AA 1-897
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TNPO2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant TNPO2 Protein expressed in mammalian cells.
Sequence:	MDWQPDEQGL QQVLQLLKDS QSPNTATQRI VQDKLKQLNQ FPDFNNYLIF VLTRLKSEDE PTRSLGLLIL 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 RTVTLPHEAE RPDGSEDAED DDDDDALSDW NLRKCSAAL DVLANVFREE LLPHLLPLLK GLLFHPPEWV KESGILVLGA IAEGCMQGMV PYLPELIPHL IQCLSDKKAL VRSIACWTL SRYAHWVVSQP PDMHLKPLMT ELLKRILDGN KRVQEAACSA FATLEEEACT ELVPYLSYIL DTLVFVAFGKY QHKNLLILYD AIGTLADSVG HHLNQPEYIQ KLMPLIQKW NELKDEDKDL FPLLECLSSV ATALQSGFLP YCEPVYQRCV TLVQKTLAQA MMYTQHPEQY EAPDKDFMIV ALDLLSGLAE GLGGHVEQLV ARSNIMTL LFQCMQDSMPEV RQSSFALLGD LTKACFIHVK PCIAEFMPIL GTNLNPEFIS

Product Details

VCNNATWAIG EICMQMGAEM QPYVQMLN LVEIINRPNT PKTLLENTGR LTSPSAIPAI
TIGRLGYVCP QEVAFMLQQF IRPWCTSLRN IRDNEEKDSA FRGICMMIGV NPGGVVQDFI
FFCDAVASWV SPKDDLRFDMF YKILHGFKDQ VGEDNWQQFS EQFPPLKER LAAFYGV **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.**

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian 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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: TNPO2

Alternative Name: TNPO2 ([TNPO2 Products](#))

Background: Transportin-2 (Karyopherin beta-2b),FUNCTION: 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

Target Details

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

UniProt: [O14787](#)

Application Details

Application Notes: We expect the protein to work for functional studies. 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.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months