

Datasheet for ABIN7555802

Transportin 3 Protein (TNPO3) (AA 1-923) (His tag)



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Overview

Quantity:	1 mg
Target:	Transportin 3 (TNPO3)
Protein Characteristics:	AA 1-923
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Transportin 3 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat TNPO3 Protein expressed in mammalian cells.
Sequence:	MEGAKPTLQL VYQAVQALYH DPDPGSKERA SFWLGELQRS VHAWAISDQL LQIRQDVESC YFAAQTMKMK IQTSFYELPT DSHASLRDSL LTHIQNLKDL SPVIVTQLAL AIADLALQMP SWKGCVQTLV EKYSNDVTSL PFLLEILTVL PEEVHSRSLR IGANRRTEII EDLAFYSSTV VSLLMTCVEK AGTDEKMLMK VFRCLGSWFN LGVLDSNFMA NNKLLALLFE VLQQDKTSSN LHEAASDCVC SALYAIENVE TNLPLAMQLF QGVLTLTAY HMAVAREDL KVLNYCRIFT ELCETFLEKI VCTPGQGLGD LRTLELLLIC AGHPQYEVVE ISFNFWYRLG EHLYKTNDEV IHGIFKAYIQ RLLHALARHC QLEPDHEGVP EETDDFGEFR MRVSDLVKDL IFLIGSMECF AQLYSTLKEG NPPWEVTEAV LFIMAAIAKS VDPENNPTLV EVLEGVVRP ETVHTAVRYT SIELVGEMSE VVDRNPQFLD PVLGYLMKGL CEKPLASAAA KAIHNICSVC RDHMAQHFN LLEIARSLDS FLLSPEAAVG LLKGTALVLA RLPLDKITEC LSELCSVQVM ALKKLLSQEP SNGISSDPTV FLDR LAVIFR HTNP IVENGQ THPCQKVIQE IWPVLSETLN KHRADNRIVE

Product Details

RCCRCLRFVAV RCVGKGSAAL LQPLVTQMVN VYHVHQHSCF LYLGSILVDE YGMEEGCRQG
LLDMLQALCI PTFQLLEQQN GLQNHPDPTVD DLFRLATRFI QRSPVTLLRS QVVIPILQWA
IASTTLDRD ANCSVMRFLR DLIHTGVAND HEEDFELRKE LIGQVMNQLG QQLVSQLLHT
CCFCLPPYTL PDVAEVLWEI MQVDRPTFCR WLENSLKGLP KETTVGAVTV THKQLTDFHK
QVTSAECKQ VCWALRDFTR LFR **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 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, Western Blot

Grade:

custom-made

Target Details

Target:

Transportin 3 (TNPO3)

Alternative Name:

TNPO3 ([TNPO3 Products](#))

Background:

Transportin-3 (Importin-12) (Imp12) (Transportin-SR) (TRN-SR), FUNCTION: Importin, which transports target proteins into the nucleus (PubMed:10366588, PubMed:10713112, PubMed:11517331, PubMed:12628928, PubMed:24449914). Specifically mediates the nuclear import of splicing factor serine/arginine (SR) proteins, such as RBM4, SFRS1 and SFRS2, by recognizing phosphorylated SR domains (PubMed:10366588, PubMed:10713112, PubMed:11517331, PubMed:12628928, PubMed:24449914). Also mediates the nuclear import

Target Details

of serine/arginine (SR) protein CPSF6, independently of CPSF6 phosphorylation (PubMed:30916345, PubMed:31465518). The nuclear import process is regulated by the small GTPase Ran that partitions between cytoplasm and nucleus in the predominantly GDP- and GTP-bound form, respectively (PubMed:23878195, PubMed:24449914). Importin associates with target cargo proteins in the cytoplasm, and the competitive binding of GTP-bound Ran induces the release of cargos in the nucleus (PubMed:23878195, PubMed:24449914). {ECO:0000269|PubMed:10366588, ECO:0000269|PubMed:10713112, ECO:0000269|PubMed:11517331, ECO:0000269|PubMed:12628928, ECO:0000269|PubMed:23878195, ECO:0000269|PubMed:24449914, ECO:0000269|PubMed:30916345, ECO:0000269|PubMed:31465518}. FUNCTION: (Microbial infection) Involved in immunodeficiency virus (HIV-1) infection by importing the pre-integration complex (PIC) into the nucleus (PubMed:18722123, PubMed:21901095, PubMed:22398280, PubMed:29329553). Required for a nuclear maturation step of HIV-1 prior to integration (PubMed:21901095, PubMed:22398280). {ECO:0000269|PubMed:18722123, ECO:0000269|PubMed:21901095, ECO:0000269|PubMed:22398280, ECO:0000269|PubMed:29329553}.

Molecular Weight: 104.2 kDa

UniProt: [Q9Y5L0](#)

Pathways: [Protein targeting to Nucleus](#)

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 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.

Handling

Expiry Date: 12 months