

Datasheet for ABIN7554169

Importin 4 Protein (IPO4) (AA 1-1081) (His tag)



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Overview

Quantity:	1 mg
Target:	Importin 4 (IPO4)
Protein Characteristics:	AA 1-1081
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Importin 4 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant IPO4 Protein expressed in mammalian cells.
Sequence:	<p>MESAGLEQLL RELLDPDTER IRRATEQLQI VLRAPAALPA LCDLLASAAD PQIRQFAAVL</p> <p>TRRRLNTRWR RLAAEQRESL KSLILTALQR ETEHCVSLSL AQLSATIFRK EGLEAWPQLL</p> <p>QLLQHSTHSP HSPEREMGLL LLSVVVTSRP EAFQPHHREL LRLLNETLGE VGSPGLLFYS</p> <p>LRTLTTMAPY LSTEDVPLAR MLVPKLIMAM QTLIPIDEAK ACEALEALDE LLESEVPVIT</p> <p>PYLSEVLTFC LEARNVALG NAIRIRILCC LTFLVKVSK ALLKNRLLPP LLHTLFPIVA</p> <p>AEPPLGQLDP EDQDSEEEEL EIELMGETPK HFAVQVVDML ALHLPPEKLC PQLMPMLEEA</p> <p>LRSESPYQRK AGLLVLAVLS DGAGDHIRQR LLPPLQIVC KGLEDPSQVW RNAALFALGQ</p> <p>FSENLQPHIS SYSREVMPLL LAYLKSVPPLG HTHHLAKACY ALENFVENLG PKVQPYLPEL</p> <p>MECMLQLLRN PSSPRAKELA VSALGAIATA AQASLLPYFP AIMEHLREFL LTGREDLQPV</p> <p>QIQSLET LGV LARAVGEP MR PLAECCQLG LGLCDQVDDP DLRRCTYSLF AALSGLMGEG</p> <p>LAPHLEQITT LMLLSLRSTE GIVPQYDGSS SFLLFDDSD GEEEEELMDE DVEEEDDSEI</p> <p>SGYSVENAFF DEKEDTCAAV GEISVNTSVA FLPYMESVFE EVFKLLECPH LNVKAAHEA</p>

LGQFCCALHK ACQSCPSEPN TAALQAALAR VVPSYMQAVN RERERQVMA VLEALTGVLR
SCGTLTLKPP GRLAELCGVL KAVLQRKTAC QDTDEEEEE DDQAEYDAM LLEHAGEAIP
ALAAAAGGDS FAPFFAGFLP LLVCKTKQGC TVAEKSAVG TLAETIQGLG AASAQFVSRL
LPVLLSTAQE ADPEVRSNAI FGMGVLAEHG GHPAQEHFPK LLGLLFPLLA RERHDRVVDN
ICGALARLLM ASPTRKPEPQ VLAALLHALP LKEDLEEWVT IGRIFSFLYQ SSPDQVIDVA
PELLRICSLI LADNKIPPD TKAALLLLTF LAKQHTDSFQ AALGSLPVDK AQELQAVLGL S

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:	<p>Key Benefits:</p> <ul style="list-style-type: none">• 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). <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	Importin 4 (IPO4)
Alternative Name:	IPO4 (IPO4 Products)
Background:	Importin-4 (Imp4) (Importin-4b) (Imp4b) (Ran-binding protein 4) (RanBP4),FUNCTION: Nuclear transport receptor that mediates nuclear import of proteins, such as histones, RPS3A, TNP2

Target Details

and VDR (PubMed:11823430, PubMed:16207705, PubMed:17682055, PubMed:21454524). Serves as receptor for nuclear localization signals (NLS) in cargo substrates (PubMed:11823430, PubMed:16207705). 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 (PubMed:11823430, PubMed:16207705). 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 (PubMed:11823430). 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 (PubMed:11823430). Mediates the nuclear import of the histone H3-H4 dimer when in complex with ASF1 (ASF1A or ASF1B) (PubMed:21454524, PubMed:29408485). Mediates the ligand-independent nuclear import of vitamin D receptor (VDR) (PubMed:16207705). In vitro, mediates the nuclear import of human cytomegalovirus UL84 by recognizing a non-classical NLS (PubMed:12610148). {ECO:0000269|PubMed:11823430, ECO:0000269|PubMed:12610148, ECO:0000269|PubMed:16207705, ECO:0000269|PubMed:17682055, ECO:0000269|PubMed:21454524, ECO:0000269|PubMed:29408485}.

Molecular Weight: 118.7 kDa

UniProt: [Q8TEX9](#)

Pathways: [Protein targeting to Nucleus](#)

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.

Handling

Expiry Date: 12 months