

[Go to Product page](#)

Datasheet for ABIN7564770

**Importin 4 Protein (IPO4) (AA 1-1082) (His tag)**

## Overview

Quantity:	1 mg
Target:	Importin 4 (IPO4)
Protein Characteristics:	AA 1-1082
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Importin 4 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat Ipo4 Protein expressed in mammalian cells.
Sequence:	MEPAGLEQIL KELLLPDTER IRRATEQLQT ILRDPAALPA LFDLLATATD SQIRQFAAVL TRRRLLNNRWR RLAPREQRESL KSLVLTALQK ETVHSVSVSL AQLSATIFRK EGLQGWPQFM NLLQHSTHSS HSPEKEVGLL LLSVVVSSQP EAFHAHQHEL LQLLNETLSD VSFPGVLFYS LRTLTAIARY VRPDDVSLAR MLVPKVVTAL RTLIPLDEVK ACEALEALDE MLETELPIIN PHLSEVLTFC LEVAKNVALG EPLRVRVLCCL TFLVKVSK ALLKNRLVPP LLHALFPLMA AEPMPGQLDP EDQSDDDDDL EIGLMGETPK HFAVQVVDML ALHLPPEKLC PHVMPMLEEA LRSEDPYQRK AGFLVLAVLS DGAGDHIRQR LLYPLLQIVC KGLDDPSQIV RNAALFALGQ FSENLQPHIS SYSEEVMPLL LSYLKSVPMPG NTHHLAKACY ALENFVENLG PKVQPYLPEL MECMLQPLKN PSKARTKELA VSAIGAIATA AQDSLLPYFP TIMDLLREFL LTGHEDFHLV QIQSLETLGV LARALGESMK PLAECCQLG LGLCIHIDDP DVRRCTYSLF AALSGLMGEG LGPYLPQITT LMLLSLRSTE GIVPQYDGIS SFLLFDDDDSE AEEEEELMDE DMEEEGDDSE

## Product Details

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ISGYSVENAF FDEKEDTCTA LGEISMNTCV AFLPFMDATF DEVYKLECP HMNVRKSAYE  
ALGQFCCALH KASQRSSSDP SSSPVLQTSL ARVMPAYMQA VKVERERPVV MAVLES LTGV  
LRTCGLALQ PPGRLSELCN VLKAVLQKKT ACQDAEEDDD EDDQAEYDA MLLEHAGEAI  
PVLAATAGGH AFAPFFATFL PLLLCKTKQS CTVAEKSFV GTLAESIQGL GTASAQFVSR  
LFPVLLNNAR EADPEVRSNA IFGLGVLAEH GGCPAQDHFP KLLG LLLPLL ARERHDRV RD  
NICGALARVL MASPVGKTEP QVLATLLRAL PLKEDMEEWL TIGHLFSFLH QNNPEQVVDV  
ASELLRICSL ILPDNRIPPD TKAALLLLLT FLAKQHTDSF HTALGSLPND KAQELQAMMG LT

**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.**

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### 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.

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### Purity:

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

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### Grade:

custom-made

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## Target Details

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### Target:

Importin 4 (IPO4)

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### Alternative Name:

Ipo4 ([IPO4 Products](#))

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### Background:

Importin-4 (Imp4) (Importin-4a) (Imp4a) (Ran-binding protein 4) (RanBP4),FUNCTION: Nuclear transport receptor that mediates nuclear import of proteins, such as histones, RPS3A, TNP2 and VDR. Serves as receptor for nuclear localization signals (NLS) in cargo substrates. Is

## Target Details

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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. Mediates the nuclear import of the histone H3-H4 dimer when in complex with ASF1 (ASF1A or ASF1B). Mediates the ligand-independent nuclear import of vitamin D receptor (VDR).  
{ECO:0000250|UniProtKB:Q8TEX9}.

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Molecular Weight: 119.3 kDa

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UniProt: [Q8VI75](#)

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Pathways: [Protein targeting to Nucleus](#)

## Application Details

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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.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months