

Recombinant Human IPO4 Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. IPO4-293H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	IPO4 MS Standard C13 and N15-labeled recombinant protein (NP_078934) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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 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 RPS3A. In vitro, mediates the nuclear import of human cytomegalovirus UL84 by recognizing a non-classical NLS.
Molecular Mass	118.7 kDa
AA Sequence	MESAGLEQLLRELLLPDTERIRRATEQLQIVLRAPAALPALCDLLASAADPQIRQFAA VLTRRRRLNTRWRRLAAEQRESLKSILTLQRETEHCVSLSLAQLSATIFRKEGLEAW

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PQLLQLLQHSTHSPHSPEREMGLLLSVVVTSRPEAFQPHHRELLRLLNETLGEVGS
 PGLLFYSLRTLTTMAPYLSTEDVPLARMLVPKLMAMQTLIPIDEAKACEALEALDELL
 ESEVPVITPYLSEVLTFCLEVARNVALGNAIRIRILCCLTFLVKVSKALLKNRLLPPLL
 HTLFPVIAAEPPPGQLDPEDQDSEEELEIELMGETPKHFVAVQVVDMLALHLPPEKL
 CPQLMPMLEEALRSESPYQRKAGLLVLAVLSDGAGDHIRQRLPPLLQIVCKGLEDP
 SQVVRNAALFALGQFSENLQPHISSYSREVMPLLLAYLKSVPPLGHTHHLAKACYALE
 NFVENLGPKVQPYLPELMECMLQLLRNPSSPRAKELAVSALGAIATAAQASLLPYFP
 AIMEHLREFLLTGREDLQPVQIQSLETGLVLARAVGEPMRPLAECCQLGLGLCDQV
 DDPDLRRCTYSLFAALSGLMGEGLAPHLEQITTLMLLSLRSTEGIVPQYDGSSSFLLF
 DDESDGEEEEELMDEDVEEEDDSEISGYSVENAFFDEKEDTCAAVGEISVNTSVAFL
 PYMESVFEEVFKLLECPHLNVRKAAHEALGQFCCALHKACQSCPSEPNTAALQAAL
 ARVVP SYMQAVNRERERQVVMVLEALTGVLRSCGTLTKPPGRLAELCGVLKAVL
 QRKTACQDTDEEEEEEDDDQAEYDAMLLEHAGEAIPALAAAAGGDSFAPFFAGFLP
 LLVCKTKQGCTVAEKSFAVGTLAETIQGLGAASAQFVSRLPVLLSTAQEADPEVRS
 NAIFGMGVLAEHGGHPAQEHFPKLLGLLFLLARERHDRVDRNICGALARLLMASPT
 RKPEPQVLAALLHALPLKEDLEEWVTIGRLFSFLYQSSPDQVIDVAPELLRICSLILAD
 NKIPPDTKAALLLLLTFLAKQHTDSFQAALGSLPVDKAQELQAVLGLSTRTRPLEQKLI
 SEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

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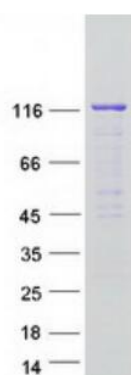
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GENE INFORMATION

Gene Name	IPO4 importin 4 [Homo sapiens (human)]
Official Symbol	IPO4
Synonyms	IPO4; importin 4; importin-4; FLJ23338; Imp4; imp4b; ranBP4; importin-4b; ran-binding protein 4; MGC131665;
Gene ID	79711
mRNA Refseq	NM_024658
Protein Refseq	NP_078934
UniProt ID	Q8TEX9

SDS-PAGE



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