

Product datasheet for PH311049

Importin4 (IPO4) (NM_024658) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	IPO4 MS Standard C13 and N15-labeled recombinant protein (NP_078934)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC211049
Predicted MW:	118.7 kDa
Protein Sequence:	>RC211049 protein sequence Red=Cloning site Green=Tags(s)

MESAGLEQLLRELLL PDTERIRRATEQLQIVLRAPAALPALCDLLASAADPQIRQFAAVLTTRRLNTRWR
RLAAEQRESLKSLLITALQRETEHCVSLSLAQLSATIFRKEGLEAWPQLLQLLQHSTHSPHSPEREMGLL
LLSVVVTSRPEAFQPHHRELLRLLNETLGEVSGPGLLFYSLRLLTTMAPYLSTEDVPLARMLVPKLIAM
QTLIPIDEAKACEALEALDELLESEVPVITPYLSEVLTFCLEVARVALGNAIRIRILCCLTFLVKVSK
ALLKNRLLPPLLHTLFPVAAEPPPGQLDPEDQDSEEELEIELMGETPKHFAVQVVDMLALHLPPEKLC
PQLMPMLEEARSESPYQRKAGLLVLAVLSDGAGDHIRQRLPPLLQIVCKGLEDPQVVRNAALFALGQ
FSENLPQHISSYSREVMPLLLAYLKSVPGLGTHHLAKACYALENFVENLGPVKVQPYLPELMECMLQLLRN
PSSPRAKELAVSALGAIATAAQSLLPYFPAIMEHLREFLLTGREDLQPVQIQSLETGLVLAARAVGPMR
PLAECCQLGLGLCDQVDDPDLRRTYSLFAALSGLMGEGLAPHLEQITTLMLLSLRSTEGIVPQYDSS
SFLLFDDES DGE EEEELMDEDVEEEDDSEISGYSVENAFFDEKEDTCAAVGEISVNTSVAFLPYMESVFE
EVFKLLECPHLNVRKAAHEALGQFCCALHKACQSCPSEPNTAALQAALARVVPVSYMQAVNRERERQVMA
VLEALTGVL RSCGTLTKPPGRLAELCGVLKAVLQRKTACQDTDEEEEEEDDQAEYDAMLEHAGEAIP
ALAAAAGGDSFAPFFAGFLPLLCKTKQCTVAEKSFAVGTLAETIQGLGAASAQFVSRLLPVLLSTAQE
ADPEVRSNAIFGMGVLAEHGGHPAQEHFPKLLGLLFLLARERHDRVDRNICGALARLLMASPTRKPEPQ
VLAALLHALPLKEDLEEWVTIGRLF SFLYQSSPDQVIDVAPELLRICSLILADNKIPPDTKAALLLTLT
LAKQHTDSFQAALGSLPVDKAQELQAVLGLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

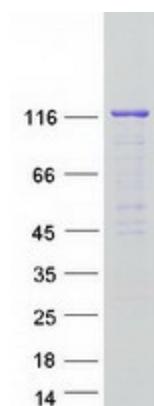
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3



[View online »](#)

Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_078934
RefSeq Size:	3606
RefSeq ORF:	3243
Synonyms:	Imp4
Locus ID:	79711
UniProt ID:	Q8TEX9 , B3KT38
Cytogenetics:	14q12
Summary:	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 (By similarity). Mediates the nuclear import of RPS3A. In vitro, mediates the nuclear import of human cytomegalovirus UL84 by recognizing a non-classical NLS.[UniProtKB/Swiss-Prot Function]
Protein Families:	Druggable Genome

Product images:



Coomassie blue staining of purified IPO4 protein (Cat# [TP311049]). The protein was produced from HEK293T cells transfected with IPO4 cDNA clone (Cat# [RC211049]) using MegaTran 2.0 (Cat# [TT210002]).