

Recombinant Human IPO7 Protein, His-tagged

Cat. No. IPO7-2336H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human IPO7 Protein (Met1-Val171) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met1-Val171
Description	The importin-alpha/beta complex and the GTPase Ran mediate nuclear import of proteins with a classical nuclear localization signal. The protein encoded by this gene is a member of a class of approximately 20 potential Ran targets that share a sequence motif related to the Ran-binding site of importin-beta. Similar to importin-beta, this protein prevents the activation of Ran's GTPase by RanGAP1 and inhibits nucleotide exchange on RanGTP, and also binds directly to nuclear pore complexes where it competes for binding sites with importin-beta and transportin. This protein has a Ran-dependent transport cycle and it can cross the nuclear envelope rapidly and in both directions. At least four importin beta-like transport receptors, namely importin beta itself, transportin, RanBP5 and RanBP7, directly bind and import ribosomal proteins.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 23.5 kDa Accurate Molecular Mass: 24 kDa

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Endotoxin	<1.0 EU per 1g (determined by the LAL method).
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	IPO7 importin 7 [Homo sapiens (human)]
Official Symbol	IPO7
Synonyms	IPO7; importin 7; RAN binding protein 7, RANBP7; importin-7; Imp7; RAN-binding protein 7; RANBP7; FLJ14581; MGC138673;
Gene ID	10527
mRNA Refseq	NM_006391

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Protein Refseq	NP_006382
MIM	605586
UniProt ID	O95373

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