

Recombinant Human IPO5 Protein, His-tagged

Cat. No. IPO5-2335H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human IPO5 Protein (Glu25-Cys247) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Glu25-Cys247
Description	Nucleocytoplasmic transport, a signal- and energy-dependent process, takes place through nuclear pore complexes embedded in the nuclear envelope. The import of proteins containing a nuclear localization signal (NLS) requires the NLS import receptor, a heterodimer of importin alpha and beta subunits also known as karyopherins. Importin alpha binds the NLS-containing cargo in the cytoplasm and importin beta docks the complex at the cytoplasmic side of the nuclear pore complex. In the presence of nucleoside triphosphates and the small GTP binding protein Ran, the complex moves into the nuclear pore complex and the importin subunits dissociate. Importin alpha enters the nucleoplasm with its passenger protein and importin beta remains at the pore. Interactions between importin beta and the FG repeats of nucleoporins are essential in translocation through the pore complex. The protein encoded by this gene is a member of the importin beta family.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 28.9 kDa

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	Accurate Molecular Mass: 26 kDa
Endotoxin	<1.0 EU per 1g (determined by the LAL method).
Purity	> 95%
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	IPO5 importin 5 [Homo sapiens (human)]
Official Symbol	IPO5
Synonyms	IPO5; importin 5; karyopherin (importin) beta 3, KPNB3, RAN binding protein 5, RANBP5; importin-5; IMB3; MGC2068; Pse1; karyopherin beta-3; RAN binding protein 5; ran-binding protein 5; importin beta-3 subunit; importin subunit beta-3; Ran_GTP binding protein 5; karyopherin (importin) beta 3; imp5; KPNB3; RANBP5; FLJ43041; DKFZp686O1576;

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Gene ID	3843
mRNA Refseq	NM_002271
Protein Refseq	NP_002262
MIM	602008
UniProt ID	O00410

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