

## Recombinant Mouse Ipo4 Protein, Myc/DDK-tagged

Cat. No. Ipo4-3565M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of mouse full-length importin 4 (Ipo4), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</b>	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. Acts as chaperone for exposed basic domains.
<b>Molecular Mass</b>	119.3 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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<b>Storage</b>	Store at -80 centigrade after receiving vials.
<b>Concentration</b>	>50 µg/mL as determined by microplate BCA method
<b>Storage Buffer</b>	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">lpo4 importin 4 [ Mus musculus (house mouse) ]</a>
<b>Official Symbol</b>	<a href="#">lpo4</a>
<b>Synonyms</b>	IPO4; importin 4; importin-4; imp4; importin 4a; importin-4a; ran-binding protein 4; Imp4a; RanBP4; AA409693; 8430408O15Rik; MGC113723
<b>Gene ID</b>	<a href="#">75751</a>
<b>mRNA Refseq</b>	<a href="#">NM_024267</a>
<b>Protein Refseq</b>	<a href="#">NP_077229</a>
<b>UniProt ID</b>	<a href="#">Q8VI75</a>

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