

Recombinant Mouse Ipo4 Protein, Myc/DDK-tagged

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

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length importin 4 (Ipo4), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
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. Acts as chaperone for exposed basic domains.
Molecular Mass	119.3 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	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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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
GENE INFORMATION	
Gene Name	lpo4 importin 4 [Mus musculus (house mouse)]
Official Symbol	lpo4
Synonyms	IPO4; importin 4; importin-4; imp4; importin 4a; importin-4a; ran-binding protein 4; Imp4a; RanBP4; AA409693; 8430408O15Rik; MGC113723
Gene ID	75751
mRNA Refseq	NM_024267
Protein Refseq	NP_077229
UniProt ID	Q8VI75

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