

Recombinant Human Karyopherin subunit beta-1 /KPNB1 Protein

Catalog No.: RP03270LQ

Sequence Information

Species **Gene ID**
Human 3837

Swiss Prot **Tags**
Q14974 N-His

Synonyms

Karyopherin subunit beta-1;
KPNB1; Importin subunit beta-1;
Importin-90; Nuclear factor p97;
Pore targeting complex 97 kDa
subunit; PTAC97; NTF97

Product Information

Source **Purification**
E.coli ≥ 85 % as
determined by
SDS-PAGE.

Calculated MW **Observed MW**
98.6 kDa 85-105 kDa

Endotoxin

< 1 EU/μg of the protein by LAL
method.

Formulation

Supplied as a 0.22 μm filtered
solution of 20 mM Tris-HCl, 1 mM
DTT, 30% Glycerol, 100 mM NaCl,
pH 8.0. Contact us for customized
product form or formulation.

Reconstitution

Please contact us for
reconstitution instructions.

Background

KPNB1 belongs to the importin beta family, and contains 1 importin N-terminal domain and 19 HEAT repeats. It functions in nuclear protein import, either in association with an adapter protein, like an importin-alpha subunit, which binds to nuclear localization signals (NLS) in cargo substrates, or by acting as autonomous nuclear transport receptor. Docking of the importin /substrate complex to the nuclear pore complex (NPC) is mediated by KPNB1 through binding to nucleoporin FxFG repeats 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 importin-beta and the three components separate and importin-alpha and -beta are re-exported from the nucleus to the cytoplasm where GTP hydrolysis releases Ran from importin. 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.

Basic Information

Description

Recombinant Human KPNB1 Protein is produced by E.coli expression system. The target protein is expressed with sequence (Met1-Ala876) of human KPNB1 (Accession #Q14974) fused with His tag at the N-terminus.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -70°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

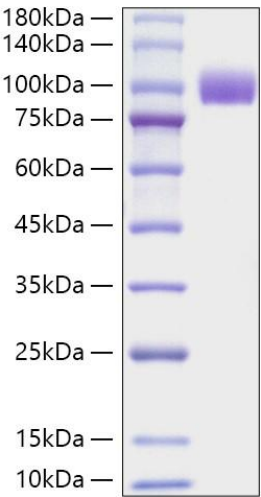
Contact

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Validation Data



Recombinant Human Karyopherin subunit beta-1/KPNB1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.