

Recombinant Human Karyopherin subunit beta-1/KPNB1 Protein

Catalog No.: RP03270LQ Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 3837 Q14974

Tags

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 > 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 μ m 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.

Contact

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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, Randependent mechanism. At the nucleoplasmic side of the NPC, Ran binds to importinbeta and the three components separate and importin-alpha and -beta are reexported 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

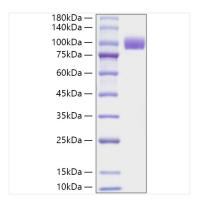
Recombinant Human KPNB1 Protein is produced by E.coli expression system. The target protein is expressed with sequence (Met1-Ala876) of human KPNB1 (Accession #Q14974) fused with His tag at the N-terminus.

Bio-Activity

Storage

Store at -70°C. This product is stable at \leq -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze-thaw cycles. Avoid repeated freeze/thaw cycles.

Validation Data



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