

KPNB1 Protein, Human, Recombinant (His)

General Information

Synonyms:	Nuclear factor p97;Importin subunit β -1;NTF97;Karyopherin subunit β -1;Importin subunit beta-1;Karyopherin subunit beta-1;KPNB1;PTAC97;Importin-90;Pore targeting complex 97 kDa subunit
Protein Construction:	Met1-Ala876
Species:	Human
Expression Host:	E. coli
Accession:	Q14974
Molecular Weight:	90 KDa (reducing condition)
AA Sequence:	Met1-Ala876

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 85% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/ μ g (1 EU/ μ g) as determined by LAL test.
Formulation:	Supplied as a 0.2 μ m filtered solution of 20 mM Tris-HCl, 1 mM DTT, 30% Glycerol, 100 mM NaCl, pH 8.0.

Preparation and Storage

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

Importin subunit beta-1(KPNB1) is a member of the importin beta family. KPNB1 contains 1 importin N-terminal domain and 19 HEAT repeats. It is involved in nucleocytoplasmic transport, a signal- and energy-dependent process, takes place through nuclear pore complexes embedded in the nuclear envelope. Its 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. The import of proteins containing a classical nuclear localization signal (NLS) requires the NLS import receptor, a heterodimer of importin alpha and beta subunits. Each of these subunits is part of the karyopherin family of proteins. Importin alpha binds the NLS-containing cargo in the cytoplasm and importin beta docks the complex at

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the cytoplasmic side of the nuclear pore complex. It mediates autonomously the nuclear import of ribosomal proteins RPL23A, RPS7 and RPL5.

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