

# Recombinant human Importin beta/KPNB1 protein

Catalog Number: ATGP1316

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-876aa

### UniProt No.

Q14974

### NCBI Accession No.

NP\_002256.2

### Alternative Names

Importin subunit beta-1, IMB1, Impnb, IPO1, IPOB, NTF97

## PRODUCT SPECIFICATION

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### Molecular Weight

99.6 kDa (899aa)

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 30% glycerol, 0.1M NaCl

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

NTF97, also known as KPNB1, is a member of the importin beta family. This protein is involved in nuclear protein import, either by associating itself with an adapter protein (for example, importin-alpha subunit which binds to nuclear localization signals (NLS) in cargo substrates), or by acting autonomously as a nuclear transport receptor (serves as NLS receptor, docking of the importin/substrate complex to the nuclear pore complex) Recombinant human KPNB1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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## Amino acid Sequence

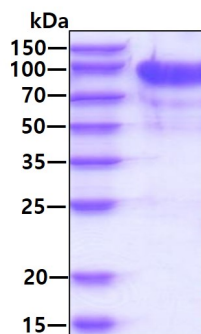
<MGSSHHHHHH SSGLVPRGSH MGS>MELITL EKTVSPDRLE LEAAQKFLER AAVENLPTFL VELSRVLANP GNSQVARVAA  
GLQIKNSLTS KDPDIKAQYQ QRWLAIANA RREVKNYVLQ TLGTETYRPS SASQCVAGIA CAEIPVNQWP ELIPQLVANV  
TNPNSTEHMK ESTLEAIGYI CQDIDPEQLQ DKSNEILTAI IQGMRKEEPS NNVKLAATNA LLNSLEFTKA NFDKESERHF  
IMQVVCEATQ CPDTRVRVAA LQNLVKIMSL YYQYMETYMG PALFAITIEA MKSDIDEVAL QGIEFWSNVC DEEMDLAIEA  
SEAAEQGRPP EHTSKFYAKG ALQYLVPILT QTLTKQDEND DDDWNPCKA AGVCLMLLAT CCEDDIVPHV LPFIKEHIKN  
PDWRYRDAAV MAFGCILEGP EPSQLKPLVI QAMPTLIELM KDPSVVVRDT AAWTVGRICE LLPEAAINDV YLAPLLQCLI  
EGLSAEPRVA SNVCWAFSSL AEAAYEAADV ADDQEEPATY CLSSSFELIV QKLETTDRP DGHQNNLRSS AYESLMEIVK  
NSAKDCYPAV QKTTLVIMER LQQVLQ MESH IQSTSDRIQF NDLQSLLCAT LQNVLRKVQH QDALQISDVV MASLLRMFQS  
TAGSGGVQED ALMAVSTLVE VLGGEFLKYM EAFKPFLGIG LKNYAAYQVC LAAVGLVGD LCRALQSNIIP FCDEVMQLLL  
ENLGNENVHR SVKPQILSVF GDIALAIGGE FKKYLEVVLN TLQQASQAQV DKSDYDMVDY LNELRESCLE AYTGIVQGLK  
GDQENVHPDV MLVQPRVEFI LSFIDHIAGD EDHTDGVVAC AAGLIGDLCT AFGKDV LKLV EARPMIHELL TEGRRSKTNK  
AKTLATWATK ELRKLKNA

## General References

Moroianu J., et al. (1995) Proc Natl Acad Sci. 92:2008-2011.  
Moroianu J., et al. (1996) Proc Natl Acad Sci. 93:6572-6576.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.