

Product Data Sheet

Product Name: KPNB1 Human

Cat. No.: GP23766

Batch No.: 1

Product Data

Purity >98%

Source E.coli.

Physical Appearance solid

Shipping Condition Shipped with Ice Packs.

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

Amino Acid Sequence

MGSSHHHHHH SGLVPRGSH MGSMEITIL EKTVSPDRLE LEAAQKFLER
AAVENLPTFL VELSRVLANP GNSQVARVAA GLQIKNSLTS KDPDIKAQYQ
QRWLAIANA RREVKNYVLQ TLGTETYRPS SASQCVAGIA CAEIPVNQWP
ELIPQLVANV TPNSTEHMK ESTLEAIGYI CQDIDPEQLQ DKSNEILTAI
IQGMRKEEPS NNVKLAATNA LLNSLEFTKA NFDKESERHF IMQVVCEATQ
CPDTRVRVAA LQNLVKIMSL YYQYMETYMG PALFAITIEA MKSDIDEVAL
QGIEFWSNVC DEEMDLAIEA SEAAEQGRPP EHTSKFYAKG ALQYLVPILT
QTLTKQDEND DDDDWNPCKA 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 LKNYA EYQVC LAAVGLVGDL
CRALQSNIIP FCDEVMQLLL ENLGNENVHR SVKPQILSVF GDIALAIGGE
FKKYLEVVLN TLQQASQAQV DKSDYDMVDY LNELRESCLE AYTGIVQGLK
GDQENVHPDV MLVQPRVEFI LSFIDHIAGD EDHTDGVVAC AAGLIGDLCT
AFGKDVLLKV EARPMIHELL TEGRRSKTNK AKTLATWATK ELRKLKNQA.

Formulation

KPNB1 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 30% glycerol and 0.1M NaCl.

Introduction

Caution: Product has not been fully validated for medical applications. For research use only.

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KPNB1 is a member of the importin beta family. The KPNB1 protein is engaged in nuclear protein import, either by coupling itself with an adapter protein (e.g., importin-alpha subunit which binds to nuclear localization signals (NLS) in cargo substrates), or by functioning autonomously as a nuclear transport receptor (acts as NLS receptor, docking of the importin/substrate complex to the nuclear pore complex).

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

KPNB1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 899 amino acids (1-876 a.a.) and having a molecular mass of 99.6kDa. KPNB1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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