

32-8821: Recombinant Human Importin Subunit Beta-1/KPNB1(N-6His)

Gene : KPNB1
Gene ID : 3837
Uniprot ID : Q14974

Description

Source: E.coli.
MW :98.6kD.

Recombinant Human Importin Subunit Beta-1 is produced by our E.coli expression system and the target gene encoding Met1-Ala876 is expressed with a 6His tag at the N-terminus. 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 the cytoplasmic side of the nuclear pore complex. It mediates autonomously the nuclear import of ribosomal proteins RPL23A, RPS7 and RPL5.

Product Info

Amount : 10 µg / 50 µg
Content : Supplied as a 0.2 µm filtered solution of 20mM Tris,1mM DTT,30% glycerol,0.1M NaCl,pH8.0.
Storage condition : Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Amino Acid : MNHKVHHHHHHMELITILEKTVSPDRLELEAAQKFLERA AVENLPTFLVELSRVLANPGNSQVARVAAGLQIKN
SLTSKDPDIKAQYQQRWLAI DANARREVKNYVLQTLGTETYPSSASQCVAGIACAEIPVNQWPELIPQLVANV
TNPNSTEHMKESTLEAIGYICQDIDPEQLQDKSNEILT AIIQGM RKEEPSNNVKLAATNALLNSLEFTKANFDKES
ERHFIMQVVCEATQCPDTRVRVAALQNLVKIMSLYYQYMETYMG PALFAITIEAMKSDIDEVALQGIEFWSNVC
DEEMDLAIEASEAAEQGRPEHTSKFYAKGALQYLVPI LTQTLTKQDENDDDDWNPCKAAGVCLMLLATCCE
DDIVPHVLPFIKEHIKNPDWRYRDAAVMAFGCILEGPEPSQLKPLVIQAMPTLIELMKDPSVVVRDTAAWTVGRI
CELLPEAAINDVYLAPLLQCLIEGLSAEPRVASNV C WAFSSLAEEAAYEAADVADDQEEPATYCLSSSFELIVQKLL
ETDRPDGHQNNLRSSAYESLMEIVKNSAKDCYPAVQKT TLVIMERLQQVLQMESHQSTSDRIQFNDLQSLLC
ATLQNVLRKVQH QDALQISDVVMASLLRMFQSTAGSGGVQEDALMAVSTLVEVLGGEF LKYM EAFKPF LGIGL
KNYAEYQVCLAAVGLVGDLCRALQSNII PFCDEVMQ LLENLGNENVHRSVKPQILSVFGDIALAIGGEFKKYLE
VVLNTLQQASQAQVDKSDYDMVDYLNELRESCLEAYTGIVQGLKGDQENVHPDVMLVQPRVEFILSFIDHIAG
DEDHTDGVVACAAGLIGDLCTAFGKDV LKLV EARP MIHELLTEGRRSKTNKAKTLATWATKELRKLKNQA

Application Note

Endotoxin : Less than 0.1 ng/Åµg (1 IEU/Åµg) as determined by LAL test.