

Product information

KPNA2, 1-529aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP1389

Full name: Importin subunit alpha-2

NCBI Accession No.: AAH05978

Synonyms: IPOA1, QIP2, SRP1alpha

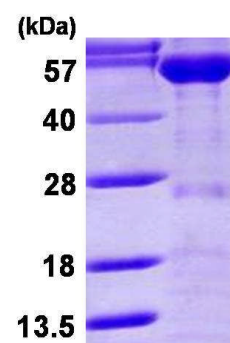
Description: Karyopherin alpha2 (KPNA2) is a member of the karyopherin alpha family. This protein plays a key role in the nuclear import of proteins with a classical nuclear localization signal (NLS). KPNA2 bound in vitro specifically and directly to substrates containing either a simple or bipartite NLS motif. It promoted docking of import substrates to the nuclear envelope and together with recombinant human Ran reconstituted complete nuclear protein import. Recombinant human KPNA2 protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography.

Form: Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol,
1mM DTT

Molecular Weight: 60.5 kDa (553aa)

Purity: > 90% by SDS - PAGE

Concentration: 1 mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

Sequences of amino acids:

MGSSHHHHH SSGLVPRGSH MGSHMSTNEN ANTPAARLHR FKNKGKDSTE MRRRIEIVNV ELRKAKKDDQ MLKRRNVSSF PDDATSPLQE
NRNNQGTWNV SVDDIVKGIN SSNVENQLQA TQAARKLLSR EKQPPIDNII RAGLIPKFVS FLGRTDCSPI QFESAWALTN IASGTSEQTK
VVVDGGAIPA FISLLASPHA HISEQAVWAL GNIAGDGSVF RDLVIKYGAV DPLLALLAVP DMSSLACGYL RNLTWTLNL CRKNKPAPPI
DAVEQILPTL VRLHHDDPE VLADTCWAIS YLTDGPNERI GMVVKTGVPV QLVKLLGASE LPIVTPALRA IGNIVTGDE QTQVVIDAGA
LAVFPSLLTN PKTNIQKEAT WTMSNITAGR QDQIQQVNVH GLVPFLVSVL SKADFKTQKE AVWAVTNYTS GGTVEQIVYL VHCIGIIEPLM
NLLTAKDTKI ILVILDAISN IFQAAENLGE TEKLSIMIEE CGGLDKIEAL QNHENESVYK ASLSLIEKYF SVEEEEDQNV VPETTSEGYT
FQVQDGAPGT FNF

General references:

Moroianu J., *et al.* (1995) *Proc. Natl. Acad. Sci. U.S.A.* 92:6532-6536

Braem C.V., *et al.* (2002) *J. Biol. Chem.* 277:19673-19678

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.
Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.