

Recombinant human Importin alpha 2/KPNA2 protein

Catalog Number: ATGP1389

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-529aa

UniProt No.

P52292

NCBI Accession No.

AAH05978.1

Alternative Names

Importin subunit alpha-2, IPOA1, QIP2, SRP1alpha

PRODUCT SPECIFICATION

Molecular Weight

60.4 kDa (553aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

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

Purity

> 90% 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

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.

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Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS<MSTNEN ANTPAARLHR FKNKGKDSTE MRRRRRIEVNV ELRKAKKDDQ
MLKRRNVSSF PDDATSPLQE NRRNQGTVNW SVDDIVKGIN SSNVENQLQA TQAARKLLSR EKQPPIDNII RAGLIPKFVS
FLGRTDCSPI QFESAWALTN IASGTSEQTK VVVDGGAIPA FISLLASPHA HISEQAVWAL GNIAGDGSVF RDLVIKYGAV
DPLLALLAVP DMSSLACGYL RNLTWLSNL CRNKNPAPPI DAVEQILPTL VRLHHDPE VLADTCWAIS YLTDGPNRI
GMVVKTGVVP QLVKLLGASE LPIVTPALRA IGNIVTGTDE QTQVVIDAGA LAVFPSLLTN PKTNIQKEAT WTMSNITAGR
QDQIQQVVNH GLVPFLSVL SKADFKTQKE AVWAVTNYTS GGTVEQIVYL VHCIIIEPLM NLLTAKDTKI ILVILDAISN
IFQAAENLGE TEKLSIMIEE CGGLDKIEAL QNHENESVYK ASLSLIEKYF SVEEEEDQNV VPETTSEGYT FQVQDGAPGT FNF

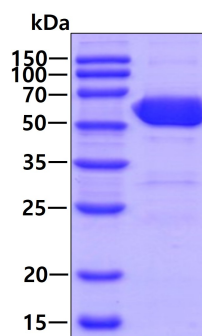
General References

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

DATA

SDS-PAGE



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