

AR50214PU-N

Human KPNA2 / Importin alpha-2 (1-529, His-tag) - Purified

Alternate names:

Karyopherin alpha-2, RAG cohort protein 1, RCH1, SRP1-alpha

Quantity:

0.25 mg

Concentration:

1 mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:

[P52292](#)

NCBI:

[AAH05978](#)

GeneID:

[3838](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS - PAGE

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

Description:

Recombinant human KPNA2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

AA Sequence:

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MGSSHHHHH SGLVPRGSH MGSMTSTNEN ANTPAARLHR FKNKGKDSTE MRRRRIEVNV
ELRKAKKDDQ MLKRRNVSSF PDDATSPLQE NRNNQGTWNW SVDDIVKGIN SSNVENQLQA
TQAARKLLSR EKQPPIDNII RAGLIPKFVS FLGRTDCSPI QFESAWALTN IASGTSEQTK
VVDGGAIPA FISLLASPHA HISEQAVWAL GNIAGDGSVF RDLVIKYGAV DPLLALLAVP
DMSSLACGYL RNLWTLSNL CRNKNPAPPI DAVEQILPTL VRLHHDDPE VLADTCWAIS
YLTGDPNERI GMVVKTGVVP QLVKLLGASE LPIVTPALRA IGNIVTGTDE QTQVVIDAGA
LAVFPSLLTN PKTNIQKEAT WTMSNITAGR QDQIQQVNH GLVPFLVSVL SKADFKTQKE
AVWAVTNYTS GGTVEQIVYL VHCGLIEPLM NLLTAKDTKI ILVILDAISN IFQAAENLGE
TEKLSIMIEE CGGLDKIEAL QNHENESVYK ASLSLIEKYF SVEEEDQNV VPETTSEGYT
FQVQDGAPGT FNF
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Molecular weight: 60.5 kDa (553aa)

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

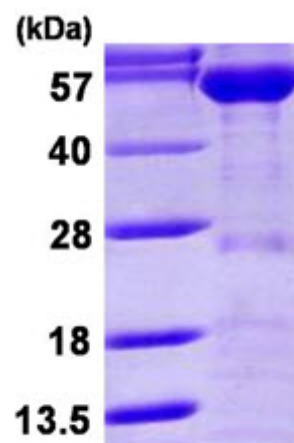
Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

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

Pictures:



15% SDS-PAGE (3ug)