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**Product Data Sheet**


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Product Name: KPNA2 Human  
 Cat. No.: GP23765  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Karyopherin subunit alpha 2 (RAG cohort 1 importin alpha 1); RCH1; QIP2; IPOA1; SRP1 alpha; RAG cohort protein 1; importin alpha 1; importin subunit alpha-2; importin-alpha-P1; pendulin.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGS HMSTNEN ANTPAARLHR FKNKGKDSTE MRRRRRIEVNV ELRKAKKDDQ MLKRRNVSSF PDDATSPLQE NRNNQGTVNW SVDDIVKGIN SSNVENQLQA TQAARKLLSR EKQPPIDNII RAGLIPKFVS FLGRTDCSPI QFESAWALTN IASGTSEQTK VVVDGGAIPA FISLLASPHA HISEQAVWAL GNIAGDGSVF RDLVIKYGAV DPLLALLAVP DMSSLACGYL RNLTWTLSNL CRKNKPAPPI DAVEQILPTL VRLHHDDE VLADTCWAIS YLTDGPNERI GMVVKTGVVP QLVKLLGASE LPIVTPALRA IGNIVTGTDE QTQVVIDAGA LAVFPSLLTN PKTNIQKEAT WTMSNITAGR QDQIQQVVNH GLVPFLVSVL SKADFKTQKE AVWAVTNYTS GGTVEQIVYL VHCGIIEPLM NLLTAKDTKI ILVILDAISN IFQAAENLGE TEKLSIMIEE CGGLDKIEAL QNHENESVYK ASLSLIEKYF SVEEEEDQNV VPETTSEGYT FQVQDGAPGT FNF.		
Formulation	The KPNA2 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT and 20% glycerol.		

**Introduction**

KPNA2 belongs to the karyopherin alpha family. KPNA2 has a vital part in the nuclear import of proteins with a conventional nuclear localization signal (NLS). In vitro, KPNA2 bound specifically and directly to substrates having a simple or bipartite NLS motif. KPNA2 stimulated docking of import substrates to the nuclear envelope and together with Ran reconstituted complete nuclear protein import.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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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

KPNA2 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 553 amino acids (1-529) and having a molecular mass of 60.5kDa. KPNA2 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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