

## CIB1 Human

**Description:** CIB1 Human Recombinant is a single, non-glycosylated polypeptide chain containing 211 amino acids and having a molecular mass of 23 kDa. CIB1 was overexpressed in E. coli as a soluble His-tag fusion protein, and it was purified by conventional column chromatographic techniques.

**Catalog #:** PKPS-352

For research use only.

**Synonyms:** Calcium and integrin-binding protein 1, Calmyrin, DNA-PKcs-interacting protein, Kinase-interacting protein, SNK-interacting protein 2-28, SIP2-28, CIB1, CIB, KIP, PRKDCIP.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MGGSGSRLSK ELLAEYQDLT  
FLTQKEILLA HRRFCCELLPQ EQRTVESSLR AQVPFEQILS LPELKANPFK ERICRVFSTS  
PAKDSLSFED FLDLLSVFSD TATPDIKSHY AFRIFDFDDD GTLNREDLSR LVNCLTGE  
DTRLASEMK QLIDNILEES DIDRDGTINL SEFQHVISRS PDFASSFKIV L.

**Purity:** Greater than 95.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

**Formulation:**

The protein contains 20mM Tris-HCl, pH-8 & 5mM DTT.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a 0.1% HSA or BSA. Avoid multiple freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

CIB1 (Calcium and integrin binding 1) is regulatory protein with 50% homology to calmodulin and calcineurin B, that encodes a member of the calcium-binding protein family. CIB1 interacts with DNA-dependent protein kinase and may play a role in kinase-phosphatase regulation of DNA end joining. Also CIB1 is widely expressed and binds to a number of effectors, such as integrin IIb, PAK1, and polo-like kinases, in different tissues.

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