



## Product Datasheet

<b>Product Name</b>	Calcium and Integrin Binding 1 Human Recombinant
<b>Cata No</b>	CB501433
<b>Source</b>	<i>Escherichia Coli.</i>
<b>Synonyms</b>	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.

### Description

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  $\alpha$ IIb, PAK1, and polo-like kinases, in different tissues. 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.

### Physical Appearance

Sterile filtered colorless solution.

### 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

### Sequence

MGSSHHHHHH SSGLVPRGSH MGGSGSRLSK  
ELLA EYQDLT FLTKQEILLA HRRFCELLPQ  
EQRTVESSLR AQVPFEQILS LPELKANPFK  
ERICRVFSTS PAKDLSLFED FLDLLSVFSD  
TATPDIKSHY AFRIFDFDDD GTLNREDLSR  
LVNCLTGEGE DTRLSASEMK QLIDNILEES  
DIDRDGTINL SEFQHVISRS PDFASSFKIV L