

## CNN1 Human

**Description:** CNN1 Human Recombinant produced in E. coli is a single polypeptide chain containing 305 amino acids (1-297) and having a molecular mass of 34.2 kDa. CNN1 is fused to an 8 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques.

Catalog #: PRPS-1136

For research use only.

**Synonyms:** Calponin 1 basic smooth muscle, Calponin H1 smooth muscle, SMCC, Basic calponin, Sm-Calp, calponin-1.

**Source:** E.coli.

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

**Amino Acid Sequence:** MSSAHFNRGP AYGLSAEVKN KLAQKYDHQR EQELREWIEG  
VTGRRIGNNF MDGLKDGII CEFINKLQPG SVKKINestQ NWHQLENIGN FIKAITKYGV  
KPHDIFEAND LFENTNHTQV QSTLLALASM AKTKGNKVVV GVKYAEKQER KFEPGKLREG  
RNIIGLQMGT NKFASQQGMT AYGTRRHLYD PKLGTDQPLD QATISLQMGT NKGASQAGMT  
APGTRQIFE PG

**Purity:** Greater than 90% as determined by SDS-PAGE.

**Formulation:**

The CNN1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 1mM DTT and 30% glycerol.

**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 carrier protein (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:**

CNN1 is a member of the calponin family. CNN1 is a thin filament-associated protein which is involved in the regulation and modulation of smooth muscle contraction. CNN1 is able to bind to actin, calmodulin, troponin C and tropomyosin. Prevention of actomyosin Mg-ATPase activity is a result of interaction between calponin and actin.

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