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CNN1 Human

Catalog #:PRPS-1136

For research use only.

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.

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 MDGLKDGIIL CEFINKLQPG SVKKINESTQ NWHQLENIGN FIKAITKYGV KPHDIFEAND LFENTNHTQV QSTLLALASM AKTKGNKVNV GVKYAEKQER KFEPGKLREG RNIIGLQMGT NKFASQQGMT AYGTRRHLYD PKLGTDQPLD QATISLQMGT NKGASQAGMT APGTKRQIFE 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 drµgs, 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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