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### Recombinant human Calponin 1 protein

Catalog Number: ATGP1584

#### **PRODUCT INFORMATION**

#### **Expression system**

E.coli

#### **Domain**

1-297aa

#### UniProt No.

P51911

#### **NCBI Accession No.**

NP 001290

#### **Alternative Names**

Calponin 1, CNN1, HEL-S-14, Sm-Calp, SMCC

#### PRODUCT SPECIFICATION

#### **Molecular Weight**

34.2 kDa (305aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 30% glycerol, 0.15M NaCl, 1mM DTT

#### **Purity**

> 90% by SDS-PAGE

#### Tag

His-Tag

#### **Application**

SDS-PAGE

#### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

CNN1, also known as calponin-1, belongs to the calponin family. CNN1 is thin filament-associated protein that is implicated in the regulation and modulation of smooth muscle contraction. It is capable of binding to actin, calmodulin, troponin C and tropomyosin. The interaction of calponin with actin inhibits the actomyosin Mg-ATPase activity. Recombinant human CNN1 protein, fused to His-tag at C-terminus, was expressed in E. coli and purified by using conventional chromatography.



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#### **Amino acid Sequence**

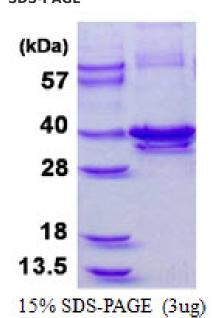
MSSAHFNRGP AYGLSAEVKN KLAQKYDHQR EQELREWIEG VTGRRIGNNF MDGLKDGIIL CEFINKLQPG SVKKINESTQ NWHQLENIGN FIKAITKYGV KPHDIFEAND LFENTNHTQV QSTLLALASM AKTKGNKVNV GVKYAEKQER KFEPGKLREG RNIIGLQMGT NKFASQQGMT AYGTRRHLYD PKLGTDQPLD QATISLQMGT NKGASQAGMT APGTKRQIFE PGLGMEHCDT LNVSLQMGSN KGASQRGMTV YGLPRQVYDP KYCLTPEYPE LGEPAHNHHA HNYYNSALEH HHHHH

#### **General References**

Maguchi M., et al. (1995) Biochem. Biophys. Res. Commun. 217:238-244 Miano J.M., et al. (1997) Gene. 197:215-224

#### **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

