

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

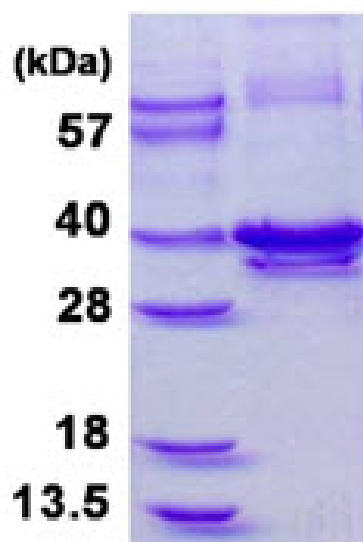
MSSAHFNRRG AYGLSAEVKN KLAQKYDHQR EQELREWIEG VTGRRIGNNF MDGLKDGIL CEFINKLQPG SVKKINESTQ
NWHQLENIGN FIKAITKYGV KPHDIFEAND LFENTNHTQV QSTLLALASM AKTKGNKVVV GVKYAEKQER KFEPGKLREG
RNIIGLQMG T NKFASQQGMT AYGTRRHLYD PKLGTQDPLD QATISLQMG T NKGASQAGMT APGTRQIFE PGLGMEHCDT
LNVSLQMG SN K GASQRGMTV YGLPRQVYDP KYCLTPEYPE LGEPAHNHHA HNYNSALEH 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.

15% SDS-PAGE (3ug)