

Recombinant Human Calponin 1, Basic, Smooth Muscle, His-tagged

Cat. No. CNN1-6836H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CNN1 protein, fused to His-tag at C-terminus, was expressed in E. coli and purified by using conventional chromatography.
Species	Human
Source	E.coli
ProteinLength	1-297aa
Description	CNN1 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.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 30% glycerol, 0.15M NaCl, 1mM DTT.
Molecular Mass	34.2 kDa (305aa) confirmed by MALDI-TOF
AA Sequence	MSSAHFNRGP AYGLSAEVKN KLAQKYDHQR EQELREWIEG VTGRRIGNNF MDGLKDGIL CEFINKLQPG SVKKINESTQ NWHQLENIGN FIKAITKYGV KPHDIFEAND LFENTNHTQV QSTLLALASM AKTKGNKVVN GVKYAEKQER KFEPGKLREG RNIIGLQMGT NKFASQQGMT AYGTRRHLYD PKLGTDQPLD QATISLQMGT NKGASQAGMT APGTRKQIFE PGLGMEHCDT LNVSLQMGSN KGASQRGMTV YGLPRQVYDP KYCLTPEYPE LGEPAHNHHA HNYNSALEH

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Purity	>90% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	CNN1 calponin 1, basic, smooth muscle [Homo sapiens]
Official Symbol	CNN1
Synonyms	CNN1; calponin 1, basic, smooth muscle; calponin-1; Sm Calp; SMCC; basic calponin; calponins, basic; calponin H1, smooth muscle; Sm-Calp;
Gene ID	1264
mRNA Refseq	NM_001299
Protein Refseq	NP_001290
MIM	600806
UniProt ID	P51911
Chromosome Location	19p13.2-p13.1

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Pathway	Myometrial Relaxation and Contraction Pathways, organism-specific biosystem;
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Function	actin binding; calmodulin binding;
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