

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

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

## SPECIFICATION

<b>Product Overview</b>	Recombinant human CNN1 protein, fused to His-tag at C-terminus, was expressed in E. coli and purified by using conventional chromatography.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-297aa
<b>Description</b>	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.
<b>Form</b>	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 30% glycerol, 0.15M NaCl, 1mM DTT.
<b>Molecular Mass</b>	34.2 kDa (305aa) confirmed by MALDI-TOF
<b>AA Sequence</b>	MSSAHFNRGP AYGLSAEVKN KLAQKYDHQR EQELREWIEG VTGRRIGNNF MDGLKDG IIL CEFINKLQPG SVKKINestQ NWHQLENIGN FIKAITKYGV KPHDIFEAND LFENTNHTQV QSTLLALASM AKTKGNKVVV GVKYAEKQER KFEPGKLREG RNIIGLQMG T NKFASQQGMT AYGTRRHLYD PKLGT DQPLD QATISLQMG T NKGASQAGMT APGTKRQIFE PGLGMEHCDT LNVSLQMG SN KGASQRGMTV YGLPRQVYDP KYCLTPEYPE LGEPAHNHHA HNYNSALEH

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	HHHHH
<b>Purity</b>	>90% by SDS - PAGE
<b>Applications</b>	SDS-PAGE
<b>Storage</b>	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.
<b>Concentration</b>	1 mg/ml (determined by Bradford assay)
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<a href="#">CNN1 calponin 1, basic, smooth muscle [ Homo sapiens ]</a>
<b>Official Symbol</b>	CNN1
<b>Synonyms</b>	CNN1; calponin 1, basic, smooth muscle; calponin-1; Sm Calp; SMCC; basic calponin; calponins, basic; calponin H1, smooth muscle; Sm-Calp;
<b>Gene ID</b>	<a href="#">1264</a>
<b>mRNA Refseq</b>	<a href="#">NM_001299</a>
<b>Protein Refseq</b>	<a href="#">NP_001290</a>
<b>MIM</b>	<a href="#">600806</a>
<b>UniProt ID</b>	<a href="#">P51911</a>
<b>Chromosome Location</b>	19p13.2-p13.1

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

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