

AR50408PU-S

Human Calponin-1 (1-297, His-tag) - Purified

Alternate names:	Basic calponin, CNN1, Calponin H1
Quantity:	0.1 mg
Concentration:	1.0 mg/ml (determined by Bradford assay)
Background:	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.
Uniprot ID:	P51911
NCBI:	NP_001290
GeneID:	1264
Species:	Human
Source:	E. coli
Format:	State: Liquid purified protein Purity: >90% by SDS - PAGE Buffer System: 20 mM Tris-HCl buffer (pH8.0) containing 30% Glycerol, 0.15M NaCl, 1mM DTT
Description:	Recombinant Human CNN1 protein, fused to His-tag at C-terminus, was expressed in E.coli and purified by using conventional chromatography. AA Sequence: MSSAHFNRGP AYGLSAEVKN KLAQKYDHQR EQELREWIEG VTGRRIGNNF MDGLKDGIIIL CEFINKLQPG SVKKINESTQ NWHQLENIGN FIKAITKYGV KPHDIFEAND LFENTNHTQV QSTLLALASM AKTKGNKVVV GVKYAEKQER KFEPGKLREG RNIIGLQMGMT NKFASQQGMT AYGTRRHLYD PKLGTDQPLD QATISLQMGMT NKGASQAGMT APGTRKRQIFE PGLGMEHCDT LNVSLQMGSN KGASQRGMTV YGLPRQVYDP KYCLTPEYPE LGEPAHNHHA HNYYN SALEH HHHHHH Molecular weight: 34.2 kDa (305aa) confirmed by MALDI-TOF
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Maguchi M, Nishida W, Kohara K, Kuwano A, Kondo I, Hiwada K. Molecular cloning and gene mapping of human basic and acidic calponins. Biochem Biophys Res Commun. 1995 Dec 5;217(1):238-44. PubMed PMID: 8526917. 2. Miano JM, Krahe R, Garcia E, Elliott JM, Olson EN. Expression, genomic structure and high resolution mapping to 19p13.2 of the human smooth muscle cell calponin gene. Gene. 1997 Sep 15;197(1-2):215-24. PubMed PMID: 9332369.

Pictures:

