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## Product Data Sheet

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Product Name: CNN2 Human  
 Cat. No.: GP23186  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Calponin 2; Calponin H2; Smooth Muscle; Neutral Calponin; calponin-2.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMSTQFN KGPSYGLSAE VKNRLLSKYD PQKEAELRTW IEGLTGLSIGPDFQKGLKDG TILCTLMNKL QPGSVPKINR SMQNWHQLEN LSNFIKAMVS YGMNPVDLFE ANDLFESGNMTQVQVSLAL AGKA		
Formulation	CNN2 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, and 10% glycerol.		

### Introduction

Calponin 2 also known as CNN2 protein is capable of binding actin, calmodulin, troponin C, and tropomyosin, and also function in the structural organization of actin filaments. Furthermore, the interaction of CNN2 with actin inhibits the actomyosin Mg-ATPase activity. CNN2 takes part in smooth muscle contraction and cell adhesion. Two transcript variants encoding different isoforms have been found for this gene.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze thaw cycles.

### Background

CNN2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 154 amino acids (1-131 a.a) and having a molecular mass of 16.9kDa. CNN2 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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