

## Calponin-2/CNN2 Protein, Human, Recombinant (His & SUMO)

### General Information

Synonyms:	Calponin H2, smooth muscle;Neutral calponin;CNN2;Calponin-2
Protein Construction:	2-309 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q99439
Molecular Weight:	49.6 kDa (predicted)
AA Sequence:	SSTQFNKGPSYGLSAEVKNRLLSKYDPQKEAELRTWIEGLTGLSIGPDFQKGLKDGILCTLMNKLQPGSVPKI NRSMQNWHQLENLSNFIKAMVSYGMNPVDLFEANDLFESGNMTQVQVSLALAGKAKTKGLQSGVDIGVK YSEKQERNFDDATMKAGQCVIGLQMGTNKCASQSGMTAYGTRRHLYDPKNHILPPMDHSTISLQMGTNKC ASQVGMTAPGTRRHIYDTKLGTDKCDNSSLQMGYTQGANQSGQVFGLGRQIYDPKYCPQGTVADGAPS GTGDCPDPGEVPEYPPYYQEEAGY

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

### Preparation and Storage

#### Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Thin filament-associated protein that is implicated in the regulation and modulation of smooth muscle contraction. It is capable of binding to actin, calmodulin and tropomyosin. The interaction of calponin with actin inhibits the actomyosin Mg-ATPase activity.

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