Recombinant CNN2 protein (His tag)

Catalog Number	545763
Synonyms	Calponin H2, smooth muscle; Neutral calponin
Species	Human
Expression System	E. coli
Accession	Q99439
Molecular Weight	Predictes a molecular mass of 21.66 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 22 kDa band.

Product Information

Sequence Region	2-184
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 2-184 aa (Q99439) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human Calponin-2 Fragment (2-184) is a high-purity protein encompassing the Calponin-homology (CH) domain, designed for studying actin-binding mechanisms and smooth muscle contraction regulation. This fragment provides a targeted tool for investigating domain-specific functions in cytoskeletal dynamics. Calponin-2 is a thin filament-associated protein crucial for regulating smooth muscle contraction. It binds actin, calmodulin, and tropomyosin, with its interaction with actin inhibiting actomyosin Mg-ATPase activity. This protein plays a key role in modulating contractile processes in smooth muscle tissues, though its subcellular localization details remain uncharacterized.