Recombinant CAP2 protein (His tag)

Catalog Number	546952
Synonyms	CAP 2
Species	Human
Expression System	E. coli
Accession	P40123
Molecular Weight	Predictes a molecular mass of 26.12 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 27 kDa band.

Product Information

Sequence Region	259-477
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 259-477 aa (P40123) 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 Adenylyl cyclase-associated protein 2 (CAP2) fragment (aa 259-477) is a high-purity protein designed for studying actin polymerization regulation. This fragment specifically encompasses the functional C-CAP/cofactor C-like domain (aa 317-455), making it an ideal tool for domain-specific functional investigations in cytoskeletal research. Adenylyl cyclase-associated protein 2 (CAP2) is a human protein involved in the regulation of actin polymerization, playing a crucial role in cytoskeletal organization and dynamics. The protein localizes to the cell membrane as a peripheral membrane protein, where it participates in membrane-associated actin remodeling processes essential for cell morphology, motility, and intracellular transport. This recombinant fragment allows researchers to specifically study the functional contributions of the C-CAP/cofactor C-like domain to CAP2's role in actin cytoskeleton regulation.