Recombinant CAP1 protein (His tag)

Catalog Number	537943
Synonyms	CAP 1
Species	Human
Expression System	E. coli
Accession	Q01518
Molecular Weight	Predictes a molecular mass of 19.13 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 20 kDa band.

Product Information

Sequence Region	318-475
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 318-475 aa (Q01518) 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 Adenylyl cyclase-associated protein 1 (CAP1) fragment (residues 318-475) from Homo sapiens, designed to encompass the C-CAP/cofactor C-like domain. This high-purity protein is an ideal tool for investigating filament dynamics, mRNA localization, and cell polarity mechanisms in cellular studies. Adenylyl cyclase-associated protein 1 (CAP1) is a multifunctional protein that directly regulates filament dynamics and is involved in key developmental and morphological processes, including mRNA localization and the establishment of cell polarity. In its native context, CAP1 localizes to the cell membrane as a peripheral membrane protein, positioning it to influence critical signaling and structural pathways. The provided fragment spans residues 318-475, fully containing the C-CAP/cofactor C-like domain, enabling focused research on the specific functions attributed to this conserved region.