Recombinant CAMP2 protein (His tag)

Catalog Number	547224
Synonyms	Calmodulin-regulated spectrin-associated protein 1-like protein 1
Species	Human
Expression System	E. coli
Accession	Q08AD1
Molecular Weight	Predictes a molecular mass of 24.67 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 26 kDa band.

Product Information

Sequence Region	1-202
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 1-202 aa (Q08AD1) 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 CAMSAP2 (Calmodulin-regulated spectrin-associated protein 2) Fragment (aa 1-202) is a high-purity protein designed for studying microtubule minus-end dynamics and organization. This stable, soluble fragment is ideal for structural, biochemical, and functional assays, enabling researchers to explore key mechanisms of non-centrosomal microtubule regulation. Calmodulin-regulated spectrin-associated protein 2 (CAMSAP2) is a critical microtubule-organizing protein that specifically binds to and stabilizes the minus-ends of non-centrosomal microtubules. It recognizes growing microtubule minus-ends, decorates and stabilizes the microtubule lattice, and protects against depolymerization while reducing polymerization velocity. CAMSAP2 localizes to the cytoplasm, cytoskeleton, and Golgi apparatus, where it plays essential roles in organelle organization, including tethering microtubules to the Golgi via interactions with AKAP9 and PDE4DIP. It is also vital for neuronal polarity, axon specification, dendritic branching, and autophagosome transport. The provided fragment (aa 1-202) represents a computationally selected stable region, facilitating research into CAMSAP2's microtubule-binding functions without domain-specific constraints.