Recombinant FCSD1 protein (His tag)

Catalog Number	547647
Synonyms	Protein nervous wreck 2; NWK2
Species	Human
Expression System	E. coli
Accession	Q86WN1
Molecular Weight	Predictes a molecular mass of 50.48 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 52 kDa band.

Product Information

Sequence Region	1-430
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 1-430 aa (Q86WN1) 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 F-BAR and double SH3 domains protein 1 (FCHSD1) fragment (amino acids 1-430) from Homo sapiens, encompassing the complete F-BAR domain. This high-purity protein is an essential tool for investigating actin polymerization mechanisms and domain-specific functions in cellular dynamics. F-BAR and double SH3 domains protein 1, also known as nervous wreck 2 (NWK2), promotes actin polymerization through interactions with SNX9 and WASL, playing a critical role in cytoskeletal organization and membrane remodeling. In human cells, it localizes to the cytoplasm, perikaryon, cell projections, and cytoplasmic vesicles, indicating its involvement in neuronal structure and vesicular trafficking processes. The provided fragment (1-430) retains the functional F-BAR domain, enabling focused studies on its role in membrane curvature sensing and actin assembly regulation.