Recombinant WAC2A protein (His tag)

Catalog Number	547469
Species	Human
Expression System	E. coli
Accession	Q641Q2
Molecular Weight	Predictes a molecular mass of 24.83 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 30 kDa band.

Product Information

Sequence Region	1-201
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 1-201 aa (Q641Q2) 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 WASH complex subunit 2A (WASHC2A) fragment (amino acids 1-201) is a highly stable and soluble protein unit designed for structural and biochemical studies. This fragment enables detailed investigation of the WASH complex's role in endosomal trafficking and actin polymerization regulation. WASH complex subunit 2A, encoded by the WASHC2A gene, functions as a key component of the WASH core complex that regulates actin polymerization through Arp2/3 complex recruitment on endosomal membranes. It mediates membrane association via phospholipid binding and interaction with retromer component VPS35, facilitating endosome sorting and tubule fission. The protein is crucial for recycling SNX27-retromer-dependent cargo (including GLUT1) and recruits multiple complexes (CCC, retriever) to endosomes. It localizes to early endosome membranes and the cell membrane, playing essential roles in intracellular trafficking pathways.