Recombinant WASF2 protein (His tag)

Catalog Number	541663
Synonyms	Protein WAVE-2; Verprolin homology domain-containing protein 2; Wiskott-Aldrich syndrome protein family member 2; WASP family protein member 2
Species	Human
Expression System	E. coli
Accession	Q9Y6W5
Molecular Weight	Predictes a molecular mass of 25.89 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 27 kDa band.

Product Information

Sequence Region	1-207
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 1-207 aa (Q9Y6W5) 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 WASF2 (WAVE-2) Fragment (1-207) is a high-quality protein product designed for structural and biochemical studies. This fragment represents a stable and soluble region of the actin-binding protein WASF2, facilitating research into cytoskeletal dynamics and signal transduction pathways. The full-length WASF2 protein, also known as WAVE-2, is a key downstream effector in transmitting signals from tyrosine kinase receptors and small GTPases to the actin cytoskeleton. It promotes actin filament formation and is part of the WAVE complex, which regulates lamellipodia formation by interacting with the Arp2/3 complex to reorganize actin filaments. WASF2 localizes to the cytoplasm, cytoskeleton, lamellipodia, and basolateral cell membrane, where it functions at the interface between the lamellipodial actin meshwork and the membrane, playing a critical role in cell motility and structure.