Recombinant SSH3 protein (His tag)

Catalog Number	540840
Synonyms	SSH-like protein 3; SSH-3L; hSSH-3L
Species	Human
Expression System	E. coli
Accession	Q8TE77
Molecular Weight	Predictes a molecular mass of 44.85 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 45 kDa band.

Product Information

Sequence Region	93-473
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 93-473 aa (Q8TE77) 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 Protein Phosphatase Slingshot Homolog 3 (SSH3) Fragment (residues 93-473) is a high-purity, functionally active protein designed for research on actin cytoskeleton regulation. This fragment includes the complete DEK-C and Tyrosine-protein phosphatase domains, enabling targeted studies of cofilin-mediated actin dynamics. Protein phosphatase Slingshot homolog 3 (SSH3) is a dual-specificity phosphatase encoded by the SSH3 gene in humans, playing a crucial role in regulating actin filament dynamics. According to functional annotations, it dephosphorylates and activates cofilin, an actin-binding protein that promotes disassembly of actin filaments—a key process in cell motility, division, and morphology. The protein localizes to both the cytoplasm (associated with the cytoskeleton) and the nucleus, suggesting potential roles in intracellular signaling and structural organization. The provided fragment (residues 93-473) retains critical functional domains, making it an ideal reagent for investigating SSH3's phosphatase activity and its impact on actin remodeling pathways.