Recombinant SMAP1 protein (His tag)

Catalog Number	540699
Species	Human
Expression System	E. coli
Accession	Q8IYB5
Molecular Weight	Predictes a molecular mass of 17.51 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 18 kDa band.

Product Information

Sequence Region	1-135
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 1-135 aa (Q8IYB5) 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 Stromal Membrane-Associated Protein 1 (SMAP1) Fragment (residues 1-135) is a high-purity, soluble protein product designed for structural and biochemical studies. This fragment represents a stable, functionally relevant region of SMAP1, a GTPase activating protein that regulates ARF6 and plays a key role in clathrin-dependent endocytosis and erythropoiesis. Stromal Membrane-Associated Protein 1 (SMAP1) is a GTPase activating protein that specifically targets ARF6, playing a critical role in clathrin-dependent endocytosis processes. The protein is localized to the cell membrane as a peripheral membrane protein on the cytoplasmic side, where it modulates intracellular trafficking and membrane dynamics. Based on sequence similarity, SMAP1 may also contribute to erythropoiesis regulation. The recombinant fragment (residues 1-135) was computationally selected to provide a stable, soluble protein unit ideal for investigating SMAP1's structural properties and molecular interactions.