Recombinant STML3 protein (His tag)

Catalog Number	549597
Synonyms	SLP-3
Species	Human
Expression System	E. coli
Accession	Q8TAV4
Molecular Weight	Predictes a molecular mass of 28.19 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 28 kDa band.

Product Information

Sequence Region	50-291
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 50-291 aa (Q8TAV4) 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 Stomatin-like protein 3 (SLP-3) fragment (amino acids 50-291) is a high-quality protein designed for mechanotransduction and ion channel research. This 242-amino acid fragment offers a stable and soluble unit ideal for structural studies, biochemical assays, and functional investigations of mechanoreceptor modulation. Stomatin-like protein 3 (SLP-3), encoded by the STOML3 gene, is essential for the function of numerous mechanoreceptors. It modulates mechanotransduction channels and acid-sensing ion channels (ASICs), while potentiating PIEZO1 and PIEZO2 function by enhancing their sensitivity to mechanical stimulation. Located in the cell membrane as a single-pass type III membrane protein, SLP-3 is detected in lipid rafts, highlighting its role in membrane-associated mechanosensory processes critical for cellular response to mechanical cues.