Recombinant MP20 protein (His tag)

Catalog Number	534727
Species	Drosophila melanogaster
Expression System	E. coli
Accession	P14318
Gene ID	36468
Molecular Weight	Predictes a molecular mass of 21.85 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 22 kDa band.

Product Information

Sequence Region	1-184
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 1-184 aa (P14318) 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 Muscle-specific protein 20 (Mp20) fragment (residues 1-184) from Drosophila melanogaster is a high-purity protein designed for functional studies. This fragment fully encompasses the Calponin-homology (CH) domain, making it an ideal tool for investigating domain-specific roles in muscle biology and cytoskeletal interactions. Muscle-specific protein 20, encoded by the Mp20 gene in Drosophila melanogaster (UniProt ID: P14318), is a protein of interest in muscle development and function research. While specific functional details and subcellular localization data are not fully characterized in the provided information, the presence of the Calponin-homology domain suggests potential roles in actin-binding and cytoskeletal organization, which are critical for muscle structure and contractility. This recombinant fragment enables focused studies on these domain-mediated mechanisms.