Recombinant MYBPH protein (His tag)

Catalog Number	548953
Synonyms	MyBP-H; H-protein
Species	Human
Expression System	E. coli
Accession	Q13203
Molecular Weight	Predictes a molecular mass of 46.93 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 47 kDa band.

Product Information

Sequence Region	68-477
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 68-477 aa (Q13203) 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 Myosin-binding protein H (MyBP-H) Fragment (aa 68-477) is a high-purity protein designed for studying myosin interactions and thick myofilament assembly. This fragment encompasses four key functional domains, making it an ideal tool for domain-specific functional assays and structural studies. Myosin-binding protein H (MyBP-H), encoded by the MYBPH gene in humans, binds to myosin and is likely involved in interactions with thick myofilaments in the A-band of muscle sarcomeres. This protein plays a role in the organization and stability of the contractile apparatus, contributing to proper muscle function. The recombinant fragment (aa 68-477) includes Fibronectin type-III and Ig-like C2-type domains, which are critical for mediating protein-protein interactions within the myofilament lattice.