Recombinant LMOD3 protein (His tag)

Catalog Number	537982
Synonyms	Leiomodin, fetal form
Species	Human
Expression System	E. coli
Accession	Q0VAK6
Molecular Weight	Predictes a molecular mass of 24.81 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 25 kDa band.

Product Information

Sequence Region	237-437
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 237-437 aa (Q0VAK6) 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 Leiomodin-3 (LMOD3) fragment (residues 237-437) from Homo sapiens, designed for structural and biochemical studies. This stable, soluble protein segment supports research into actin filament organization and polymerization in skeletal muscle development. Leiomodin-3 (LMOD3) is essential for sarcomeric actin thin filament organization in skeletal muscle and enhances actin polymerization rates. It localizes to the cytoplasm, myofibril sarcomere (particularly the M line and A band regions), and cytoskeleton, with expression concentrated in nonstriated areas of developing myotubes and near actin filament pointed ends in sarcomeres. This protein plays a critical role in muscle cell architecture and function.