Recombinant MSTN1 protein (His tag)

Catalog Number	548762
Species	Human
Expression System	E. coli
Accession	Q8IVN3
Molecular Weight	Predictes a molecular mass of 10.56 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 11 kDa band.

Product Information

Sequence Region	1-82
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 1-82 aa (Q8IVN3) 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 Musculoskeletal embryonic nuclear protein 1 (MUSTN1) fragment (amino acids 1-82) is a high-purity, soluble protein designed for robust use in structural and biochemical studies. This fragment captures a stable, functional region of MUSTN1, supporting research into chondrocyte development, myoblast differentiation, and skeletal muscle extracellular matrix regulation. Musculoskeletal embryonic nuclear protein 1 (MUSTN1) is essential for chondrocyte development and proliferation, playing a critical role in myoblast differentiation and fusion. It modulates skeletal muscle extracellular matrix composition and function, and contributes to glucose homeostasis. The protein localizes to the nucleus, cytoplasm, and is secreted into the extracellular space from smooth muscle cells, indicating its involvement in both intracellular signaling and extracellular matrix interactions. The recombinant fragment (1-82) represents a stable, soluble unit ideal for investigating these multifaceted roles in musculoskeletal biology.