Recombinant MESP1 protein (His tag)

Catalog Number	545797
Synonyms	Class C basic helix-loop-helix protein 5; bHLHc5
Species	Human
Expression System	E. coli
Accession	Q9BRJ9
Molecular Weight	Predictes a molecular mass of 9.89 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 10 kDa band.

Product Information

Sequence Region	84-155
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 84-155 aa (Q9BRJ9) 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 Mesoderm Posterior Protein 1 (MESP1) Fragment (aa 84-155) - A highly stable and soluble 72-amino acid fragment ideal for structural biology and biochemical studies of this crucial developmental transcription factor. Mesoderm Posterior Protein 1 (MESP1), also known as Class C basic helix-loop-helix protein 5 (bHLHc5), functions as a transcription factor that plays essential roles in embryonic development. It is critically involved in the epithelialization of somitic mesoderm and the development of cardiac mesoderm, contributing to proper heart formation. Additionally, MESP1 participates in defining the rostrocaudal patterning of somites through distinct Notch signaling pathways. As a nuclear-localized protein (UniProt ID: Q9BRJ9), MESP1 regulates gene expression programs that guide mesodermal differentiation and tissue patterning during embryogenesis. The selected fragment (amino acids 84-155) represents a stable, soluble unit optimized for experimental applications while maintaining relevance to the protein's functional context.