Recombinant ISM2 protein (His tag)

Catalog Number	549785
Synonyms	Thrombospondin and AMOP domain-containing isthmin-like protein 1; Thrombospondin type-1 domain-containing protein 3
Species	Human
Expression System	E. coli
Accession	Q6H9L7
Molecular Weight	Predictes a molecular mass of 21.10 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 22 kDa band.

Product Information

Sequence Region	402-571
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 402-571 aa (Q6H9L7) 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 Isthmin-2 Fragment (aa 402-571) is a high-purity protein product designed for structural and biochemical studies. This 170-amino acid fragment, derived from the ISM2 gene, was computationally selected for optimal stability and solubility, making it an ideal tool for investigating protein interactions and domain functions. Isthmin-2 (ISM2) is a secreted human protein containing thrombospondin and AMOP domains, suggesting potential roles in extracellular matrix interactions and cellular adhesion processes. As a secreted protein, it functions in the extracellular space, where it may participate in cell signaling or tissue organization pathways. The specific biological functions of Isthmin-2 remain an active area of research, with this recombinant fragment providing a valuable reagent for elucidating its molecular mechanisms.