Recombinant HMSD protein (His tag)

Catalog Number	550318
Synonyms	Minor histocompatibility protein HMSD; Minor histocompatibility serpin domain-containing protein
Species	Human
Expression System	E. coli
Accession	A8MTL9
Molecular Weight	Predictes a molecular mass of 15.07 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 15 kDa band.

Product Information

Sequence Region	21-139
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 21-139 aa (A8MTL9) 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 Serpin-like protein HMSD (Minor histocompatibility protein HMSD) fragment (residues 21-139) is a high-purity protein fragment designed for structural and biochemical studies. This 119-amino acid fragment represents the stable serpin domain and maintains functional relevance as a putative serine protease inhibitor, making it ideal for research applications requiring soluble and well-characterized protein samples. The full-length Serpin-like protein HMSD (UniProt ID: A8MTL9) is a minor histocompatibility protein containing a serpin domain, which functions as a putative serine protease inhibitor. Serine protease inhibitors play crucial roles in regulating proteolytic pathways involved in various physiological processes, including immune responses and cellular homeostasis. According to its subcellular localization, HMSD is secreted, suggesting it may exert its inhibitory function in extracellular environments, potentially influencing intercellular communication and immune recognition pathways. The selected fragment (residues 21-139) encompasses the core serpin domain, preserving key structural elements necessary for functional studies while offering enhanced solubility and stability for experimental applications.