Recombinant MSMB protein (His tag)

Catalog Number	544332
Synonyms	Immunoglobulin-binding factor; IGBF; PN44; Prostate secreted seminal plasma protein; Prostate secretory protein of 94 amino acids; PSP-94; PSP94; Seminal plasma beta-inhibin
Species	Human
Expression System	E. coli
Accession	P08118
Molecular Weight	Predictes a molecular mass of 12.42 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 13 kDa band.

Product Information

Sequence Region	21-114
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 21-114 aa (P08118) 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 Beta-microseminoprotein (MSMB) Fragment (residues 21-114) is a highly purified protein fragment representing a stable and soluble domain of this seminal plasma protein. This 94-amino acid fragment has been computationally optimized for structural integrity and solubility, making it ideal for biochemical studies, functional assays, and structural biology applications. Beta-microseminoprotein, also known as Prostate Secretory Protein of 94 amino acids (PSP-94), is a human protein encoded by the MSMB gene. The protein is secreted and localizes to the sperm surface, indicating its potential role in reproductive biology and seminal plasma function. While specific functional details are not provided, its presence in seminal plasma and association with sperm surfaces suggests involvement in reproductive processes. The full-length protein is known by multiple names including Immunoglobulin-binding factor (IGBF) and Seminal plasma beta-inhibin, reflecting its diverse biological associations.