# Recombinant TEST protein (His tag)

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| **Catalog Number** | 548624 |
| **Synonyms** | Eosinophil serine protease 1; ESP-1; Serine protease 21 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q9Y6M0 |
| **Molecular Weight** | Predictes a molecular mass of 29.43 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 29 kDa band. |

## Product Information

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| **Sequence Region** | 42-288 |
| **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 42-288 aa (Q9Y6M0) were fused with 6His tag. |

## Storage & Handling

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| **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.<br>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise. |

## Description

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| **Description** | Recombinant Human Testisin (PRSS21) Fragment (residues 42-288) is a high-purity protein designed for studying serine protease activity and germ cell maturation processes. This fragment fully encompasses the Peptidase S1 domain, making it an ideal tool for targeted functional assays and proteolytic event research. Testisin (PRSS21), also known as Eosinophil Serine Protease 1, is a membrane-anchored serine protease implicated in regulating proteolytic events during testicular germ cell maturation. The full-length protein is localized to the cell membrane via a GPI-anchor, suggesting roles in extracellular and cell surface-associated processes. Its function in germ cell development makes it a significant target for reproductive biology and cellular maturation studies. |