Recombinant TRY2 protein (His tag)

Catalog Number	546703
Synonyms	Anionic trypsinogen; Serine protease 2; Trypsin II
Species	Human
Expression System	E. coli
Accession	P07478
Molecular Weight	Predictes a molecular mass of 25.70 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 26 kDa band.

Product Information

Sequence Region	24-247
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 24-247 aa (P07478) 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 Trypsin-2 (EC 3.4.21.4) Fragment (residues 24-247) is a high-purity protein designed for studying serine protease activity and defensin processing. This 224-amino acid fragment fully encompasses the Peptidase S1 domain, making it an ideal tool for targeted functional assays and mechanistic research. Trypsin-2, encoded by the PRSS2 gene, is an anionic trypsinogen and serine protease that plays a specialized role in human intestinal defense. According to functional studies, it is involved in the processing of defensins, including DEFA5, in the ileum. As a secreted protein localized to the extracellular space, Trypsin-2 functions in proteolytic activation pathways critical for innate immune responses. This recombinant fragment retains the complete Peptidase S1 domain, enabling focused investigation of its specific catalytic and regulatory functions.