Recombinant PRS58 protein (His tag)

Catalog Number	550179
Synonyms	Trypsin-X3
Species	Human
Expression System	E. coli
Accession	Q8IYP2
Molecular Weight	Predictes a molecular mass of 26.83 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 27 kDa band.

Product Information

Sequence Region	18-241
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 18-241 aa (Q8IYP2) 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 Serine protease 58 (Trypsin-X3) Fragment (18-241) is a high-purity protein preparation encompassing the complete Peptidase S1 domain. This fragment serves as an essential research tool for investigating the specific catalytic functions and biochemical properties of this important serine protease. Serine protease 58, also known as Trypsin-X3, is a secreted enzyme belonging to the peptidase S1 family (EC 3.4.21.4). As a secreted protein, it functions in extracellular environments where it likely participates in proteolytic processing events. The full-length protein's secretion pattern suggests involvement in physiological processes requiring extracellular protease activity, though specific functional details require further investigation. The recombinant fragment provided offers researchers a focused tool to study the core catalytic domain without interference from other protein regions.