Recombinant PRS46 protein (His tag)

Catalog Number	551492
Synonyms	Serine protease 46 pseudogene
Species	Human
Expression System	E. coli
Accession	E5RG02
Molecular Weight	Predictes a molecular mass of 17.57 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 18 kDa band.

Product Information

Sequence Region	33-174
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 33-174 aa (E5RG02) 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	Our recombinant protein product features a 142-amino acid fragment (residues 33-174) of human Putative serine protease 46 (PRSS46P). This fragment is specifically designed to encompass the complete Peptidase S1 domain, providing researchers with an ideal tool for investigating the structure and catalytic functions of this key serine protease domain. Putative serine protease 46 (PRSS46P) is a human protein classified as a serine protease (EC 3.4.21.-). While detailed functional and subcellular localization data for the full-length protein is currently limited, serine proteases represent a crucial enzyme family involved in numerous biological processes including digestion, blood coagulation, and immune response. The Peptidase S1 domain is characteristic of the chymotrypsin-like serine protease family, containing the catalytic triad essential for proteolytic activity. This recombinant fragment allows focused study of this conserved functional domain's properties.