Recombinant POLS2 protein (His tag)

Catalog Number	547422
Synonyms	Polyserine protease 2; Serine protease 36
Species	Human
Expression System	E. coli
Accession	Q5K4E3
Molecular Weight	Predictes a molecular mass of 24.34 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 24 kDa band.

Product Information

Sequence Region	601-812
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 601-812 aa (Q5K4E3) 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 Polyserase-2 Fragment (residues 601-812) is a high-purity, soluble protein designed for structural and biochemical studies. This fragment, derived from the serine protease PRSS36, retains key functional characteristics and is optimized for stability, making it ideal for investigating protease mechanisms and substrate specificity. Polyserase-2 (PRSS36) is a secreted serine protease that hydrolyzes peptide substrates, demonstrating a marked preference for arginine over lysine at the P1 position, as evidenced by its activity on N-t-Boc-Gln-Ala-Arg-AMC and related compounds. Located in the extracellular space and matrix without membrane attachment, it plays a role in extracellular proteolytic processes. The selected fragment (601-812) was computationally predicted to form a stable, soluble unit, enabling focused analysis of the protease's functional domains and supporting research into its biological roles and potential applications.