Recombinant SER3 protein (His tag)

Catalog Number	533859
Synonyms	Protein Jonah 99Ci
Species	Drosophila melanogaster
Expression System	E. coli
Accession	P17207
Gene ID	43545
Molecular Weight	Predictes a molecular mass of 26.97 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 27 kDa band.

Product Information

Sequence Region	41-272
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 41-272 aa (P17207) 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 Serine protease 3 (Protein Jonah 99Ci) fragment (residues 41-272) from Drosophila melanogaster, designed to encompass the complete Peptidase S1 domain. This high-purity fragment serves as an essential tool for investigating protease activity and digestive functions in research applications. Serine protease 3, encoded by the Jon99Ci gene in Drosophila melanogaster, primarily functions in digestion as supported by experimental evidence (PubMed:2469005). As a member of the serine protease family (EC 3.4.21.-), it plays a crucial role in protein breakdown and nutrient processing. The full-length protein's specific subcellular localization remains uncharacterized, but its digestive function suggests involvement in metabolic pathways. This recombinant fragment enables focused study of the conserved Peptidase S1 domain's mechanistic properties and biological relevance.