Recombinant STRT1 protein (His tag)

Catalog Number	535943
Species	Drosophila melanogaster
Expression System	E. coli
Accession	Q9W145
Gene ID	37927
Molecular Weight	Predictes a molecular mass of 16.69 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 17 kDa band.

Product Information

Sequence Region	242-371
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 242-371 aa (Q9W145) 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 Steroidogenic acute regulatory protein-like (Start1) fragment (residues 242-371) from Drosophila melanogaster, designed for structural and biochemical studies. This 130-amino acid fragment represents a stable, soluble unit ideal for investigating cholesterol transport and ecdysteroid biosynthesis mechanisms. The full-length Steroidogenic acute regulatory protein-like (Start1) in Drosophila melanogaster is implicated in cholesterol binding and transport, with a potential role in ecdysteroid biosynthesis, as supported by experimental evidence. As a multi-pass membrane protein localized to cellular membranes, it functions in critical steroidogenic pathways. The selected fragment (242-371) was computationally optimized for stability and solubility, enabling detailed analysis of its structural and functional properties without the complexities of the full membrane-bound protein.