Recombinant SPCS2 protein (His tag)

Catalog Number	534934
Synonyms	Microsomal signal peptidase 25 kDa subunit; SPase 25 kDa subunit
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	Q9XWW1
Gene ID	176703
Molecular Weight	Predictes a molecular mass of 11.72 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 13 kDa band.

Product Information

Sequence Region	94-180
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 94-180 aa (Q9XWW1) 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 Signal Peptidase Complex Subunit 2 (SPCS-2) Fragment (residues 94-180) from Caenorhabditis elegans. This 87-amino acid fragment represents a stable, soluble domain ideal for studying the structural and functional properties of this essential endoplasmic reticulum membrane protein involved in protein processing and translocation. Signal peptidase complex subunit 2 is a critical component of the signal peptidase complex (SPC) that catalyzes the cleavage of N-terminal signal sequences from nascent proteins during their translocation into the endoplasmic reticulum lumen. This protein enhances SPC enzymatic activity and facilitates interactions between different components at the translocation site. As a multi-pass membrane protein localized to the endoplasmic reticulum membrane, SPCS-2 plays a fundamental role in protein processing and maturation pathways. The selected fragment (94-180) provides researchers with a stable, soluble unit suitable for detailed structural characterization and biochemical analysis of this important regulatory component.