Recombinant TPSTB protein (His tag)

Catalog Number	534813
Synonyms	Tyrosylprotein sulfotransferase; TPST
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	Q20351
Gene ID	185681
Molecular Weight	Predictes a molecular mass of 31.58 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 33 kDa band.

Product Information

Sequence Region	1-259
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 1-259 aa (Q20351) 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 Putative Protein-Tyrosine Sulfotransferase (TPST-2) Fragment (1-259) from Caenorhabditis elegans. This high-quality, soluble fragment is ideal for investigating tyrosine sulfation mechanisms, enzyme kinetics, and structural studies, offering researchers a reliable tool for biochemical and functional analyses. The full-length Putative Protein-Tyrosine Sulfotransferase (TPST-2), encoded by the tpst-2 gene in Caenorhabditis elegans, catalyzes the O-sulfation of tyrosine residues within acidic polypeptide motifs using 3'-phosphoadenylyl sulfate (PAPS) as a cosubstrate. This post-translational modification is critical for regulating protein-protein interactions, receptor signaling, and extracellular matrix dynamics, with implications in developmental and cellular processes. The recombinant fragment (residues 1-259) encompasses the core functional domain, enabling focused studies on sulfotransferase activity and substrate specificity without the complexities of the full-length protein.