Recombinant FUCTC protein (His tag)

Catalog Number	534770
Synonyms	1,3; Galactoside 3-L-fucosyltransferase
Species	Drosophila melanogaster
Expression System	E. coli
Accession	P83088
Gene ID	3355171
Molecular Weight	Predictes a molecular mass of 44.60 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 45 kDa band.

Product Information

Sequence Region	59-425
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 59-425 aa (P83088) 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 Alpha-(1,3)-fucosyltransferase C (FucTC) fragment (amino acids 59-425) from Drosophila melanogaster, a stable and soluble unit optimized for structural and biochemical studies. This high-quality protein supports research in glycosylation pathways and enzyme characterization. Alpha-(1,3)-fucosyltransferase C (FucTC) is a key enzyme involved in glycosylation processes, catalyzing the transfer of fucose residues to galactose-containing substrates. The full-length protein is localized to the Golgi apparatus, specifically embedded in the Golgi stack membrane as a single-pass type II membrane protein, and is predominantly found in the trans cisternae. This subcellular positioning underscores its role in post-translational modifications within the secretory pathway, essential for cellular signaling and development. The recombinant fragment (59-425) was selected to exclude transmembrane regions, enhancing solubility and stability for experimental applications while retaining functional relevance.