Recombinant GLTP protein (His tag)

Catalog Number	548398
Synonyms	GLTP
Species	Human
Expression System	E. coli
Accession	Q9NZD2
Molecular Weight	Predictes a molecular mass of 25.37 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 25 kDa band.

Product Information

Sequence Region	2-209
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 2-209 aa (Q9NZD2) 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 Glycolipid Transfer Protein (GLTP) fragment (residues 2-209) from Homo sapiens, a highly soluble and stable protein unit designed for structural and biochemical studies. This fragment accelerates the intermembrane transfer of glycolipids, providing a valuable tool for investigating lipid trafficking mechanisms. Glycolipid Transfer Protein (GLTP) is a cytoplasmic protein that facilitates the intermembrane transfer of various glycosphingolipids, including glucosylceramides, while demonstrating specificity by not transferring phospholipids. This protein plays a crucial role in intracellular glycolipid translocation and distribution, with implications for understanding membrane dynamics and lipid metabolism. The full-length protein's function has been characterized through multiple studies demonstrating its glycolipid transfer activity between membranes.