Recombinant EXTL1 protein (His tag)

Catalog Number	547886
Synonyms	Exostosin-L; Glucuronosyl-N-acetylglucosaminyl-proteoglycan 4-alpha-N-acetylglucosaminyltransferase; Multiple exostosis-like protein
Species	Human
Expression System	E. coli
Accession	Q92935
Molecular Weight	Predictes a molecular mass of 47.21 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 47 kDa band.

Product Information

Sequence Region	268-676
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 268-676 aa (Q92935) 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 Human Exostosin-like 1 (EXTL1) Fragment (268-676) is a high-quality protein product designed for heparan-sulfate biosynthesis research. This fragment, encompassing residues 268-676, is engineered for stability and solubility, making it ideal for structural studies and enzymatic assays. Exostosin-like 1 (EXTL1) is a glycosyltransferase essential for heparan-sulfate (HS) biosynthesis, specifically transferring N-acetyl-alpha-D-glucosamine to the nascent HS chain (GlcNAcT-II activity). It lacks GlcNAcT I and GlcAT-II activities, highlighting its specialized role in HS chain elongation. As a single-pass type II membrane protein localized to the endoplasmic reticulum, EXTL1 functions in the early steps of HS proteoglycan assembly, which is critical for cell signaling, extracellular matrix organization, and developmental processes. This recombinant fragment provides a soluble, functional unit for investigating EXTL1's mechanism and interactions.