Recombinant B3GN2 protein (His tag)

Catalog Number	543763
Synonyms	Beta-1,3-N-acetylglucosaminyltransferase 1; BGnT-1; Beta-1,3-Gn-T1; Beta3Gn-T1; Beta-1,3-galactosyltransferase 7; Beta-1,3-GalTase 7; Beta3Gal-T7; Beta3GalT7; b3Gal-T7; Beta-3-Gx-T7; UDP-Gal:beta-GlcNAc beta-1,3-galactosyltransferase 7; UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 2; BGnT-2; Beta-1,3-Gn-T2; Beta-1,3-N-acetylglucosaminyltransferase 2; Beta3Gn-T2; UDP-galactose:beta-N-acetylglucosamine beta-1,3-galactosyltransferase 7
Species	Human
Expression System	E. coli
Accession	Q9NY97
Molecular Weight	Predictes a molecular mass of 44.41 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 44 kDa band.

Product Information

Sequence Region	29-397
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 29-397 aa (Q9NY97) 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 B3GNT2 (Beta-1,3-N-acetylglucosaminyltransferase 2) Fragment (aa 29-397) is a high-purity protein designed for structural and biochemical studies. This 369-amino acid fragment retains key functional regions, offering a stable and soluble tool for investigating poly-N-acetyllactosamine synthesis and glycosylation mechanisms. B3GNT2, also known as Beta-1,3-N-acetylglucosaminyltransferase 2, is a Golgi apparatus membrane enzyme critical for synthesizing poly-N-acetyllactosamine chains. It functions as a primary polylactosamine synthase, catalyzing both the initiation and elongation of these chains with a marked preference for Gal(beta1-4)Glc(NAc)-based acceptors. As a single-pass type II membrane protein, it plays a fundamental role in glycosylation pathways, influencing cellular recognition and signaling processes.