

## B3GALT5 Protein, Human (sf9, His)

Cat. No.:	HY-P76739
Synonyms:	Beta-1,3-galactosyltransferase 5; Beta3Gal-T5; Beta-3-Gx-T5
Species:	Human
Source:	Sf9 insect cells
Accession:	Q9Y2C3 (N29-V310)
Gene ID:	10317
Molecular Weight:	Approximately 35.2 kDa.

### PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris, 150 mM NaCl, pH 8.0, 10% Glycerol. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	Beta-1,3-Galactosyltransferase 5 (B3GALT5) is an enzyme that plays a key role in glycosylation by catalyzing the transfer of a galactose (Gal) residue to GlcNAc-based acceptors. This enzyme exhibits a preference for the core3 O-linked glycan structure, specifically GlcNAc(beta1,3)GalNAc. Additionally, B3GALT5 demonstrates efficiency in using glycolipid LC3Cer as an acceptor substrate. The transfer of galactose by B3GALT5 is integral to the biosynthesis of complex glycan structures, contributing to the diversity of glycoconjugates involved in cellular recognition, signaling, and adhesion processes. Understanding the substrate specificity of B3GALT5 provides insights into its role in glycosylation pathways and the modulation of cellular functions through the generation of specific glycan structures.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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