

## B3GNT6 Protein, Human (sf9, His)

Cat. No.:	HY-P76741
Synonyms:	Acetylgalactosaminyl-O-glycosyl-glycoprotein beta-1,3-N-acetylglucosaminyltransferase; Core 3 synthase; Beta3Gn-T6
Species:	Human
Source:	Sf9 insect cells
Accession:	Q6ZMB0 (Q44-S384)
Gene ID:	192134
Molecular Weight:	Approximately 47 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, 500 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	<p>The B3GNT6 Protein functions as a vital beta-1,3-N-acetylglucosaminyltransferase, specializing in the synthesis of the core 3 structure of O-glycans, which serves as a crucial precursor in the biosynthesis of mucin-type glycoproteins. With a key role in the synthesis of mucin-type O-glycans, particularly in digestive organs, B3GNT6 contributes significantly to the structural diversity and functional properties of glycoconjugates. The enzyme's involvement in core 3 O-glycan synthesis is essential for the proper formation and function of mucins, influencing processes related to cell adhesion and mucosal protection. Understanding the specific role of B3GNT6 enhances our comprehension of glycosylation pathways, offering potential applications in elucidating digestive organ physiology and contributing to the exploration of glycan-related therapeutic targets. Further investigation into B3GNT6's function holds promise for advancing our knowledge of mucin-type glycoprotein biosynthesis and its implications in health and disease.</p>
------------	---

---

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA