

**Product Name: Recombinant Human B3GNT1 (C-6His)**  
**Catalog #: PHH0118**



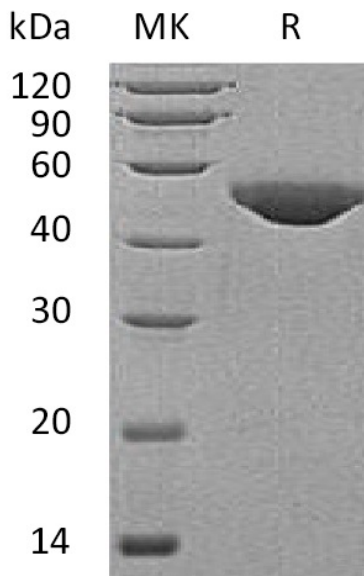
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## Summary

<b>Name</b>	B3GNT1/ $\beta$ -1,3-N-acetylglucosaminyltransferase 1
<b>Purity</b>	Greater than 95% as determined by reducing SDS-PAGE
<b>Endotoxin level</b>	<1 EU/ $\mu$ g as determined by LAL test.
<b>Construction</b>	Recombinant Human N-Acetyllactosaminide Beta-1,3-N-Acetylglucosaminyltransferase is produced by our Mammalian expression system and the target gene encoding Asp43-Cys415 is expressed with a 6His tag at the C-terminus.
<b>Accession #</b>	O43505
<b>Host</b>	Human Cells
<b>Species</b>	Human
<b>Predicted Molecular Mass</b>	43.4 KDa
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution of 20mM Tris-HCl, 150mM NaCl, pH 7.4.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
<b>Stability&amp;Storage</b>	Lyophilized protein should be stored at $\leq -20^{\circ}\text{C}$ , stable for one year after receipt. Reconstituted protein solution can be stored at 2-8 $^{\circ}\text{C}$ for 2-7 days. Aliquots of reconstituted samples are stable at $\leq -20^{\circ}\text{C}$ for 3 months.
<b>Reconstitution</b>	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

## SDS-PAGE image

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### **Alternative Names**

N-Acetyllactosaminide Beta-1; 3-N-Acetylglucosaminyltransferase; I-Beta-1; 3-N-Acetylglucosaminyltransferase; iGnT; Poly-N-Acetyllactosamine Extension Enzyme; UDP-GlcNAc:BetaGal Beta-1; 3-N-Acetylglucosaminyltransferase 1; B3GNT1; B3GNT6

### **Background**

N-Acetyllactosaminide  $\beta$ -1,3-N-Acetylglucosaminyltransferase (B3GNT1) is a member of the  $\beta$ -1,3-N-Acetylglucosaminyltransferase family. B3GNT1 is a single-pass type II membrane protein and widely expressed in many tissues. B3GNT1 can initiate the synthesis or the elongation of the linear poly-N-acetyllactosaminoglycans. B3GNT1 is essential for the synthesis of poly-N-acetyllactosamine, a determinant for the blood group i antigen. It can initiate the synthesis or the elongation of the linear poly-N-acetyllactosaminoglycans.

### **Note**

For Research Use Only , Not for Diagnostic Use.