

# Recombinant Human B4GAT1/B3GNT1 Protein (His Tag)



Catalog Number:PKSH032105

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

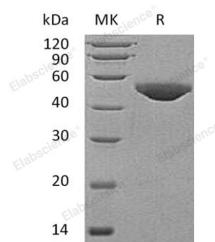
## Description

<b>Synonyms</b>	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
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Asp43-Cys415
<b>Accession</b>	O43505
<b>Calculated Molecular Weight</b>	43.4 kDa
<b>Observed molecular weight</b>	45-55 kDa
<b>Tag</b>	C-His

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per $\mu$ g of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution of 20mM Tris-HCl, 150mM NaCl, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual for detailed information.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## 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

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