Recombinant Human B4GAT1/B3GNT1 Protein (His Tag)

Catalog No. PKSH032105

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

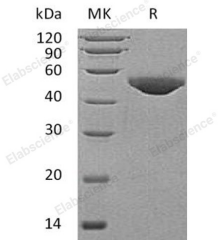
Description

Synonyms	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
Species	Human
Expression Host	HEK293 Cells
Sequence	Asp43-Cys415
Accession	O43505
Calculated Molecular Weight	43.4 kDa
Observed molecular weight	45-55 kDa
Tag	C-His
Bioactivity	Not validated for activity

Properties

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

Data



> 95 % as determined by reducing SDS-PAGE.

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Background

N-Acetyllactosaminide β-1,3-N-Acetylglucosaminyltransferase (B3GNT1) is a member of the β-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.

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