# Recombinant Human B3GNT2 Protein (Fc Tag)

**Catalog Number:PKSH031125**

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

## Description

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|---|---|
| **Synonyms** | B3GN-T2;B3GNT;B3GNT-2;B3GNT1;BETA3GNT;BGnT-2;BGNT2 |
| **Species** | Human |
| **Expression Host** | HEK293 Cells |
| **Sequence** | Lys29-Cys397 |
| **Accession** | Q9NY97-1 |
| **Calculated Molecular Weight** | 71.2 kDa |
| **Observed molecular weight** | 112-120 kDa |
| **Tag** | N-hFc |

## Properties

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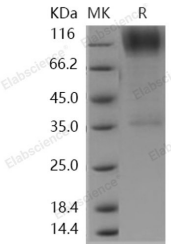
|---|---|
| **Purity** | > 90 % as determined by reducing SDS-PAGE. |
| **Endotoxin** | < 1.0 EU per μg of the protein as determined by the LAL method. |
| **Storage** | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored 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 sterile PBS, pH 7.4<br>Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual. |
| **Reconstitution** | Please refer to the printed manual for detailed information. |

## Data




> 90 % as determined by reducing SDS-PAGE.

## Background

B3GNT2 belongs to the beta-1,3-N-acetylglucosaminyltransferase family. It is a type II transmembrane protein which prefers the substrate of lacto-N-neotetraose. Alternative splicing produced 2 isoforms of the human protein. B3GNT2 catalyzes the initiation and elongation of poly-N- acetyllactosamine chains. Enzymatic activities of some glycosyltransferases are markedly increased via complex formation with other transferases or cofactor proteins. B3GNT2 and beta3Gn-T8 can form a heterodimer in vitro and that the complex exhibits much higher enzymatic activity than either enzyme alone. It is found that up-regulation of beta3Gn-T8 in differentiated HL-60 cells may increases poly-N-acetyllactosamine chains by activating intrinsic B3GNT2.

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