

## B3GNT5 Protein, Human, Recombinant (His)

## General Information

Synonyms:	3-N-acetyl-beta-D-glucosaminyltransferase;B3GNT5;UDP-GlcNAc:beta-Gal beta-1,3-N-acetylglucosaminyltransferase 5 (BGnT-5;Beta-1,3-Gn-T5;Beta-1,3-N-acetylglucosaminyltransferase 5;Beta3Gn-T5);Lactosylceramide 1,3-N-acetyl-beta-D-glucosaminyltransferase;Lactotriaosylceramide synthase (Lc(3)Cer synthase;Lc3 synthase)
Protein Construction:	36-378 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q9BYG0
Molecular Weight:	46.7 kDa (Predicted)
AA Sequence:	DNHIVSHMKSYSYRYLINSYDFVNDTSLKHTSAGPRYQYLINHKEKCQAQDVLLLLFVKTAPENYDRRSGIRR TWGNENYVRSQLNANIKTLFALGTPNPLEGEELQRKLAWEDQRYNDIIQQDFVDSFYNLTLKLLMQFSWANT YCPHAKFLMTADDDIFIHMPNLI EYLSLEQIGVQDFWIGRVHRGAPPIRDKSSKYYVSYEMYQWPAYPDYTA GAAYVISGDVAAKVYEASQTLNSSLYIDDVFMGLCANKIGIVPQDHVFFSGEGKTPYHPCIEKMMTSHGHLE DLQDLWKNATDPKVKTKISGFFGQIYCRMKIILLCKISYVDTYPCRAAFI

## QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it.
Purity:	>90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

## Preparation and Storage

## Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

## Stability &amp; Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

*Actual storage temperature shall be subject to the COA.*

## Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

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