

## UDP-GalNAc: Beta-1, 3-N-Acetylgalactosaminyltransferase 2 (B3GALNT2)

### Product Information

|                                 |                                                                                                                                                                                                                                                                                                                            |
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| <b>Cat#</b>                     | DIA-891                                                                                                                                                                                                                                                                                                                    |
| <b>Descriptions</b>             | UDP-GalNAc: Beta-1, 3-N-acetylgalactosaminyltransferase 2 (B3GALNT2) catalyzes the transfer of N-acetylgalactosamine via $\beta$ -1,3 linkage to glycan acceptors, participates in the biosynthesis of the GalNAc $\beta$ 1-3Gal structure, and is associated with muscular dystrophy and neural glycosylation regulation. |
| <b>Applications</b>             | UDP-GalNAc: Beta-1, 3-N-acetylgalactosaminyltransferase 2 (B3GALNT2) is applied in muscular dystrophy related glycosylation detection kits and neural glycan biosynthesis assay reagent development.                                                                                                                       |
| <b>CAS No.</b>                  | 24-01-3138                                                                                                                                                                                                                                                                                                                 |
| <b>Enzyme Commission Number</b> | EC 2.4.1.313                                                                                                                                                                                                                                                                                                               |
| <b>Enzyme Source</b>            | Chinese Hamster Ovary cell line, CHO-derived human B3GALNT2 protein.                                                                                                                                                                                                                                                       |
| <b>Reaction</b>                 | 3-O- (N-acetyl-beta-D-glucosaminyl- (1->4)-alpha-D-mannosyl)-L-threonyl-[protein] + UDP-N-acetyl-alpha-D-galactosamine = 3-O-[beta-D-GalNAc- (1->3)-beta-D-GlcNAc- (1->4)-alpha-D-Man]-L-Thr-[protein] + H <sup>+</sup> + UDP                                                                                              |
| <b>Activity Definition</b>      | Measured by its ability to transfer GalNAc from UDP-GalNAc to benzyl-GlcNAc.                                                                                                                                                                                                                                               |