

globotriaosylceramide 3-β-N-acetylgalactosaminyltransferase

Cat. No. EXWM-2619

Lot. No. (See product label)

Introduction

Globoside is a neutral glycosphingolipid in human erythrocytes and has blood-Description

> group-P-antigen activity. The enzyme requires a divalent cation for activity, with Mn2+ required for maximal activity. UDP-GalNAc is the only sugar donor that is used efficiently by the enzyme: UDP-Gal and UDP-GlcNAc result in very low enzyme activity. Lactosylceramide, globoside and gangliosides GM3 and GD3 are not substrates. For explanation of the superscripted '3' in the systematic name, see GL-

5.3.4.

 $uridine\ diphosphoacetylgalactosamine-galactosylgalactosylglucosylceramide$ **Synonyms**

acetylgalactosaminyltransferase; globoside synthetase; UDP-N-

acetylgalactosamine:globotriaosylceramide β -3-N-acetylgalactosaminyltransferase; galactosylgalactosylglucosylceramide β -D-acetylgalactosaminyltransferase; UDP-N-

acetylgalactosamine:globotriaosylceramide \$1,3-N-

acetylgalactosaminyltransferase; globoside synthase; gUDP-N-acetyl-D-

galactosamine:D-galactosyl-1,4-D-galactosyl-1,4-D-glucosylceramide β-N-acetyl-Dgalactosaminyltransferase; β3GalNAc-T1; UDP-N-acetyl-D-galactosamine:α-Dgalactosyl- $(1\rightarrow 4)$ - β -D-galactosyl- $(1\rightarrow 4)$ - β -D-glucosylceramide 3III- β -N-acetyl-Dgalactosaminyltransferase; UDP-N-acetyl-D-galactosamine: α -D-galactosyl- $(1\rightarrow 4)$ - β -

D-galactosyl-(1→4)-β-D-glucosyl-(1↔1)-ceramide 3III-β-N-acetyl-D-

galactosaminyltransferase; UDP-N-acetyl-D-galactosamine: α -D-galactosyl- $(1\rightarrow 4)$ - β -

D-galactosyl-(1→4)-β-D-glucosyl-(1↔1)-ceramide III3-β-N-acetyl-D-

galactosaminyltransferase

Product Information

Liquid or lyophilized powder **Form**

EC Number EC 2.4.1.79

CAS No. 62213-46-1

Reaction UDP-N-acetyl- α -D-galactosamine + α -D-galactosyl- $(1\rightarrow 4)$ - β -D-galactosyl- $(1\rightarrow 4)$ - β -D-

> glucosyl- $(1\leftrightarrow 1)$ -ceramide = UDP + N-acetyl- β -D-galactosaminyl- $(1\rightarrow 3)$ - α -Dgalactosyl- $(1\rightarrow 4)$ - β -D-galactosyl- $(1\rightarrow 4)$ - β -D-glucosyl- $(1\leftrightarrow 1)$ -ceramide

Notes This item requires custom production and lead time is between 5-9 weeks. We can

custom produce according to your specifications.

Storage and Shipping Information

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C. Storage

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