

(N-acetylneuraminyl)-galactosylglucosylceramide N-acetylgalactosaminyltransferase

Cat. No. EXWM-2632

Lot. No. (See product label)

Introduction

Description This enzyme catalyses the formation of the gangliosides (i.e. sialic-acid-containing

glycosphingolipids) GM2, GD2 and SM2 from GM3, GD3 and SM3, respectively. Asialo-GM3 and lactosylceramide are also substrates, but glycoproteins and

oligosaccharides are not substrates.

Synonyms uridine diphosphoacetylgalactosamine-ganglioside GM3

acetylgalactosaminyltransferase; ganglioside GM2 synthase; ganglioside GM3 acetylgalactosaminyltransferase; GM2 synthase; UDP acetylgalactosamine-(N-

acetylneuraminyl)-D-galactosyl-D-glucosylceramide

acetylgalactosaminyltransferase; UDP-N-acetyl-D-galactosamine:1-O-[O-(N-acetyl- α -neuraminyl)-(2 \rightarrow 3)-O- β -D-galactopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl]-ceramide 1,4- β -N-acetyl-D-galactosaminyltransferase acetylgalactosaminyltransferase; UDP-

N-acetylgalactosamine GM3 N-acetylgalactosaminyltransferase; uridine diphosphoacetylgalactosamine-acetylneuraminylgalactosylglucosylceramide acetylgalactosaminyltransferase; uridine diphosphoacetylgalactosamine-hematoside acetylgalactosaminyltransferase; GM2/GD2-synthase; β -1,4N-

acetylgalactosaminyltransferase; asialo-GM2 synthase; GalNAc-T; UDP-N-acetyl-D-galactosamine:(N-acetylneuraminyl)-D-galactosyl-D-glucosylceramide N-acetyl-D-galactosaminyltransferase; UDP-N-acetyl-D-galactosamine:1-O-[O-(N-acetyl- α -neuraminyl)-(2 \rightarrow 3)-O- β -D-galactopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl]-ceramide 4-

β-N-acetyl-D-galactosaminyltransferase

Product Information

Form Liquid or lyophilized powder

EC Number EC 2.4.1.92

CAS No. 67338-98-1

Reaction UDP-N-acetyl-α-D-galactosamine + O-(N-acetyl-α-neuraminyl)-(2→3)-O-β-D-

galactopyranosyl- $(1\rightarrow 4)$ - β -D-glucopyranosyl- $(1\leftrightarrow 1)$ -ceramide = UDP + O-2-(acetylamino)-2-deoxy- β -D-galactopyranosyl- $(1\rightarrow 4)$ -O-[N-acetyl- α -neuraminyl- $(2\rightarrow 3)$]-O- β -D-galactopyranosyl- $(1\rightarrow 4)$ - β -D-glucopyranosyl- $(1\leftrightarrow 1)$ -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

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

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