

(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 diphosphoacetylglactosamine-ganglioside GM3 acetylglactosaminyltransferase; ganglioside GM2 synthase; ganglioside GM3 acetylglactosaminyltransferase; GM2 synthase; UDP acetylglactosamine-(N-acetylneuraminyl)-D-galactosyl-D-glucosylceramide acetylglactosaminyltransferase; 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 acetylglactosaminyltransferase; UDP-N-acetylglactosamine GM3 N-acetylglactosaminyltransferase; uridine diphosphoacetylglactosamine-acetylneuraminylgalactosylglucosylceramide acetylglactosaminyltransferase; uridine diphosphoacetylglactosamine-hematoside acetylglactosaminyltransferase; GM2/GD2-synthase; β -1,4N-acetylglactosaminyltransferase; 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 \rightarrow 3)-O- β -D-galactopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl-(1 \leftrightarrow 1)-ceramide = UDP + O-2-(acetilamino)-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.