Creative Enzymes®

(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→3)-O-β-D-galactopyranosyl-(1→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→3)-O-β-D-galactopyranosyl-(1→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→4)-β-D-glucopyranosyl-(1↔1)-ceramide = UDP + O-2-(acetylamino)-2-deoxy-β-D-galactopyranosyl-(1→4)-O-[N-acetyl-α-neuraminyl-(2→3)]-O-β-D-galactopyranosyl-(1→4)-β-D-glucopyranosyl-(1↔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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.