

α -1,4-Galactosyltransferase from *Neisseria meningitides*, Recombinant

Cat. No. NATE-1479

Lot. No. (See product label)

Introduction

Description Lactosylceramide 4- α -galactosyltransferase is an enzyme that in humans is encoded by the A4GALT gene. The protein encoded by this gene catalyzes the transfer of galactose to lactosylceramide to form globotriaosylceramide, which has been identified as the P(k) antigen of the P blood group system. The encoded protein, which is a type II membrane protein found in the Golgi, is also required for the synthesis of the bacterial verotoxins receptor.

Synonyms lactosylceramide 4- α -galactosyltransferase; Gal β 1-4Glc β 1-Cer α 1,4-galactosyltransferase; globotriaosylceramide/CD77 synthase; histo-blood group Pk UDP-galactose; UDP-galactose:lactosylceramide 4II- α -D-galactosyltransferase; UDP-galactose: β -D-galactosyl-(1 \rightarrow 4)-D-glucosyl-(1 \leftrightarrow 1)ceramide 4II- α -D-galactosyltransferase; UDP-galactose: β -D-galactosyl-(1 \rightarrow 4)-D-glucosyl-(1 \leftrightarrow 1)-ceramide 4II- α -D-galactosyltransferase

Product Information

Species *Neisseria meningitides*

Source *E. coli*

EC Number EC 2.4.1.228

CAS No. 52725-57-2

Molecular Weight 34 kDa

Purity min 95% by SDS-PAGE

Unit Definition One unit is defined as the amount of enzyme that catalyzes the formation of 1 μ mol of Gal α 1,4Lac from UDP-Gal and Lactose per minute at 37 °C.