

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

Cat. No. NATE-1479

Lot. No. (See product label)

Introduction

Description

Lactosylceramide 4-alpha-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-alpha-galactosyltransferase; Galbeta1-4Glcbeta1-Cer alpha1,4-galactosyltransferase; globotriaosylceramide/CD77 synthase; histo-blood group Pk UDP-galactose; UDP-galactose:lactosylceramide 4II-alpha-D-galactosyltransferase; UDP-galactose:beta-D-galactosyl-(1->4)-D-glucosyl(1<->1)ceramide 4II-alpha-D-galactosyltransferase; UDP-galactose:beta-D-galactosyl-(1->4)-D-glucosyl-(1<->1)-ceramide 4II-alpha-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 μmol of Galα1,4Lac from UDP-Gal and Lactose per minute at 37 °C.