Creative Enzymes®

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.