Creative Enzymes®

α-1,3-Galactosyltransferase from Bovine, Recombinant

Cat. No. NATE-1480

Lot. No. (See product label)

Introduction

Description	In enzymology, a N-acetyllactosaminide 3-alpha-galactosyltransferase (EC 2.4.1.87) is an enzyme that catalyzes the chemical reaction: UDP-galactose + beta-D-galactosyl-(1->4)-beta-N-acetyl-D-glucosaminyl-R → UDP + alpha-D-galactosyl-(1->3)-beta-D-galactosyl-(1->4)-beta-N- acetylglucosaminyl-R. Thus, the two substrates of this enzyme are UDP-galactose and [[beta-D-galactosyl-(1->4)-beta-N-acetyl-D-glucosaminyl-R]], whereas its 3 products are UDP, [[alpha-D-galactosyl-(1->3)-beta-D-galactosyl-(1->4)-beta-N-]], and acetylglucosaminyl-R.
Synonyms	alpha-galactosyltransferase; UDP-galactose-acetyllactosamine alpha-D-galactosyltransferase; glycopeptide alpha-1,3-D-galactosyltransferase; glucosaminylglycopeptide alpha-1,3-galactosyltransferase; uridine diphosphogalactose-acetyllactosamine; alpha1->3-galactosyltransferase; uridine diphosphogalactose-acetyllactosamine galactosyltransferase; galactosyltransferase; beta-D-galactosyl-N-acetylglucosaminylglycopeptide; alpha-1,3-galactosyltransferase

Product Information

Species	Bovine
Source	E. coli
EC Number	EC 2.4.1.87
CAS No.	128449-51-4
Molecular Weight	36 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 Galα1,3Lac from UDP-Gal and Lactose per minute at 37 °C.