Creative Enzymes®

α-1,3-N-acetyl-galactosaminyltransferase from Helicobacter mustelae, Recombinant

Cat. No. NATE-1477

Lot. No. (See product label)

Introduction

Description	In enzymology, a glycoprotein-fucosylgalactoside alpha-N-acetylgalactosaminyltransferase (EC 2.4.1.40) is an enzyme that catalyzes the chemical reaction: UDP-N-acetyl-D-galactosamine + glycoprotein-alpha-L-fucosyl-(1,2)-D-galactose → UDP + glycoprotein-N-acetyl-alpha-D-galactosaminyl-(1,3)-[alpha-L-fucosyl-(1,2)]-D-galactose. Thus, the two substrates of this enzyme are UDP-N-acetyl-D-galactosamine and glycoprotein-alpha-L-fucosyl-(1,2)-D-galactose, whereas its 3 products are UDP, [[glycoprotein-N-acetyl-alpha-D-galactosaminyl-(1,3)-[alpha-L-fucosyl-]], and [[(1,2)]-D-galactose]].
Synonyms	UDP-N-acetyl-D-galactosamine:glycoprotein-alpha-L-fucosyl-(1,2)-D-ga lactose 3-N-acetyl-D-galactosaminyltransferase; A-transferase; histo-blood group A glycosyltransferase; (Fucalpha1→2Galalpha1→3-N-acetylgalactosaminyltransferase); UDP-GalNAc:Fucalpha1→2Galalpha1→3-N-acetylgalactosaminyltransferase; alpha-3-N-acetylgalactosaminyltransferase; blood-group substance alpha-acetyltransferase; blood-group substance A-dependent acetylgalactosaminyltransferase; fucosylgalactose acetylgalactosaminyltransferase; histo-blood group A acetylgalactosaminyltransferase; histo-blood group A transferase; UDP-N-acetyl-D-galactosamine:alpha-L-fucosyl-1,2-D-galactose; 3-N-acetyl-D-galactosaminyltransferase

Product Information

Species	Helicobacter mustelae
Source	E. coli
EC Number	EC 2.4.1.40
CAS No.	9067-69-0
Molecular Weight	37 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 GalNAcα1,3(Fucα1,2)Gal from Fucα1,2Gal per minute at 37 °C.