

α-1,2-colitosyltransferase

Cat. No. EXWM-2580

Lot. No. (See product label)

Introduction

Description

The enzyme, characterized from the bacterium *Escherichia coli* O55:H7, participates in the biosynthesis of an O-antigen. The reaction involves anomeric inversion, and does not require any metal ions. The enzyme is highly specific towards the acceptor, exclusively recognizing lacto-N-biose, but can accept GDP-L-fucose as the donor with almost the same activity as with GDP-β-L-colitose.

Synonyms

wbgN (gene name)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 2.4.1.341

Reaction

$\text{GDP-}\beta\text{-L-colitose} + \beta\text{-D-galactopyranosyl-(1}\rightarrow\text{3)-N-acetyl-D-glucosamine} = \text{GDP} + \alpha\text{-L-colitosyl-(1}\rightarrow\text{2)-}\beta\text{-D-galactosyl-(1}\rightarrow\text{3)-N-acetyl-D-glucosamine}$

Notes

This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.