

rhamnopyranosyl-N-acetylglucosaminyl-diphospho-decaprenol β -1,3/1,4-galactofuranosyltransferase

Cat. No. EXWM-2520

Lot. No. (See product label)

Introduction

Description

Isolated from Mycobacterium tuberculosis and M. smegmatis, the enzyme has dual β -(1 $\rightarrow$ 4) and β -(1 $\rightarrow$ 5) transferase action. Involved in the formation of the cell wall in mycobacteria.

Synonyms

arabinogalactan galactofuranosyl transferase 1; GlfT1

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 2.4.1.287

Reaction

2 UDP- α -D-galactofuranose + α -L-rhamnopyranosyl-(1 $\rightarrow$ 3)-N-acetyl- α -D-glucosaminyl-diphospho-trans,octacis-decaprenol = 2 UDP + β -D-galactofuranosyl-(1 $\rightarrow$ 5)- β -D-galactofuranosyl-(1 $\rightarrow$ 4)- α -L-rhamnopyranosyl-(1 $\rightarrow$ 3)-N-acetyl- α -D-glucosaminyl-diphospho-trans,octacis-decaprenol (overall reaction); (1a) UDP- α -D-galactofuranose + α -L-rhamnopyranosyl-(1 $\rightarrow$ 3)-N-acetyl- α -D-glucosaminyl-diphospho-trans-octacis-decaprenol = UDP + β -D-galactofuranosyl-(1 $\rightarrow$ 4)- α -L-rhamnopyranosyl-(1 $\rightarrow$ 3)-N-acetyl- α -D-glucosaminyl-diphospho-trans-octacis-decaprenol; (1b) UDP- α -D-galactofuranose + β -D-galactofuranosyl-(1 $\rightarrow$ 4)- α -L-rhamnopyranosyl-(1 $\rightarrow$ 3)-N-acetyl- α -D-glucosaminyl-diphospho-trans-octacis-decaprenol = UDP + β -D-galactofuranosyl-(1 $\rightarrow$ 5)- β -D-galactofuranosyl-(1 $\rightarrow$ 4)- α -L-rhamnopyranosyl-(1 $\rightarrow$ 3)-N-acetyl- α -D-glucosaminyl-diphospho-trans-octacis-decaprenol

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.