Creative Enzymes®

lipid IVA 3-deoxy-D-manno-octulosonic acid transferase

Cat. No. EXWM-2696

Lot. No. (See product label)

Introduction

Description

The bifunctional enzyme from Escherichia coli transfers two 3-deoxy-D-manno-oct-2-ulosonate residues to lipid IVA (cf. EC 2.4.99.13 [(Kdo)-lipid IVA 3-deoxy-D-manno-octulosonic acid transferase]). The monofunctional enzymes from Aquifex aeolicus and Hemophilus influenzae catalyse the transfer of a single 3-deoxy-D-manno-oct-2-ulosonate residue from CMP-3-deoxy-D-manno-oct-2-ulosonate to lipid IVA. The enzymes from Chlamydia transfer three or more 3-deoxy-D-manno-oct-2-ulosonate residues and generate genus-specific epitopes.

Synonyms

KDO transferase; waaA (gene name); kdtA (gene name); 3-deoxy-D-manno-oct-2-ulosonic acid transferase; 3-deoxy-manno-octulosonic acid transferase; lipid IVA KDO transferase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 2.4.99.12

Reaction

lipid IVA + CMP-β-Kdo = α-Kdo-(2→6)-lipid IVA + CMP

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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.