

undecaprenyldiphospho-muramoylpentapeptide β -N-acetylglucosaminyltransferase

Cat. No. EXWM-2456

Lot. No. (See product label)

Introduction

Description

The enzyme also works when the lysine residue is replaced by meso-2,6-diaminoheptanedioate (meso-2,6-diaminopimelate, A2pm) combined with adjacent residues through its L-centre, as it is in Gram-negative and some Gram-positive organisms. The undecaprenol involved is ditrans,octacis-undecaprenol (for definitions, click here).

Synonyms

MurG transferase; UDP-N-acetyl-D-glucosamine:N-acetyl- α -D-muramyl(oyl-L-Ala- γ -D-Glu-L-Lys-D-Ala-D-Ala)-diphosphoundecaprenol β -1,4-N-acetylglucosaminyltransferase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 2.4.1.227

CAS No.

60976-26-3

Reaction

UDP-N-acetylglucosamine + Mur2Ac(oyl-L-Ala- γ -D-Glu-L-Lys-D-Ala-D-Ala)-diphosphoundecaprenol = UDP + GlcNAc-(1 \rightarrow 4)-Mur2Ac(oyl-L-Ala- γ -D-Glu-L-Lys-D-Ala-D-Ala)-diphosphoundecaprenol

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.