

peptidoglycan glycosyltransferase

Cat. No. EXWM-2354

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,octakis-undecaprenol (for definitions, click here). Involved in the synthesis of cell-wall peptidoglycan.

Synonyms PG-II; bactoprenyldiphospho-N-acetylmuramoyl-(N-acetyl-D-glucosaminyl)-pentapeptide:peptidoglycan N-acetylmuramoyl-N-acetyl-D-glucosaminyltransferase; penicillin binding protein (3 or 1B); peptidoglycan transglycosylase; undecaprenyldiphospho-(N-acetyl-D-glucosaminyl-(1→4)-N-acetyl-D-muramoylpentapeptide):undecaprenyldiphospho-(N-acetyl-D-glucosaminyl-(1→4)-N-acetyl-D-muramoylpentapeptide) disaccharidetransferase

Product Information

Form Liquid or lyophilized powder

EC Number EC 2.4.1.129

CAS No. 79079-04-2

Reaction $[\text{GlcNAc-(1}\rightarrow\text{4)-Mur2Ac(oyl-L-Ala-}\gamma\text{-D-Glu-L-Lys-D-Ala-D-Ala)}]_n\text{-diphosphoundecaprenol} + \text{GlcNAc-(1}\rightarrow\text{4)-Mur2Ac(oyl-L-Ala-}\gamma\text{-D-Glu-L-Lys-D-Ala-D-Ala)-diphosphoundecaprenol} = [\text{GlcNAc-(1}\rightarrow\text{4)-Mur2Ac(oyl-L-Ala-}\gamma\text{-D-Glu-L-Lys-D-Ala-D-Ala)}]_{n+1}\text{-diphosphoundecaprenol} + \text{undecaprenyl diphosphate}$

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.