

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,octacis-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-($1\rightarrow4$)-N-acetyl-D-muramoylpentapeptide):undecaprenyldiphospho-(N-acetyl-D-

glucosaminyl- $(1\rightarrow 4)$ -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 [GlcNAc-(1→4)-Mur2Ac(oyl-L-Ala-γ-D-Glu-L-Lys-D-Ala)]n-

$$\label{eq:diphosphoundecaprenol} \begin{split} & \text{diphosphoundecaprenol} + \text{GlcNAc-}(1\rightarrow 4)-\text{Mur2Ac}(\text{oyl-L-Ala-}\gamma-\text{D-Glu-L-Lys-D-Ala-D-Indiphosphoundecaprenol}) \\ & = [\text{GlcNAc-}(1\rightarrow 4)-\text{Mur2Ac}(\text{oyl-L-Ala-}\gamma-\text{D-Glu-L-Lys-D-Indiphosphoundecaprenol})] \\ & = (\text{GlcNAc-}(1\rightarrow 4)-\text{Mur2Ac}(\text{oyl-L-Ala-}\gamma-\text$$

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Ala-D-Ala)]n+1-diphosphoundecaprenol + 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

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