

UDP-N-acetylmuramate-L-alanyl-γ-D-glutamyl-meso-2,6-diaminoheptanedioate ligase

Cat. No. EXWM-5763

Lot. No. (See product label)

Introduction

Description The enzyme catalyses the reincorporation into peptidoglycan of the tripeptide L-

alanyl-γ-D-glutamyl-2,6-meso-diaminoheptanedioate released during the

maturation and constant remodeling of this bacterial cell wall polymer that occur during cell growth and division. The enzyme can also use the tetrapeptide L-alanyl- γ -D-glutamyl-meso-2,6-diaminoheptanedioyl-D-alanine or the pentapeptide L-alanyl- γ -D-glutamyl-meso-2,6-diaminoheptanedioyl-D-alanyl-D-alanine in vivo and

in vitro. Requires Mg2+.

Synonyms murein peptide ligase; Mpl; yjfG (gene name); UDP-MurNAc:L-Ala-γ-D-Glu-meso-

A2pm ligase; UDP-N-acetylmuramate:L-alanyl-γ-D-glutamyl-meso-diaminopimelate

ligase

Product Information

Form Liquid or lyophilized powder

EC Number EC 6.3.2.45

Reaction ATP + UDP-N-acetyl- α -D-muramate + L-alanyl- γ -D-glutamyl-meso-2,6-

diaminoheptanedioate = ADP + phosphate + UDP-N-acetylmuramoyl-L-alanyl-γ-D-

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glutamyl-meso-2,6-diaminoheptanedioate

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.