

## 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- $\gamma$ -D-glutamyl-meso-2,6-diaminoheptanedioyl-D-alanine or the pentapeptide L-alanyl-meso-2,6-diaminoheptanedioyl-meso-2,6-diaminoheptanedioyl-meso-2,6-diaminoheptanedioyl-meso-2,6-diaminoheptanedioyl-meso-2,6-diaminoheptanedioyl-meso-2,6-diaminoheptanedioyl-meso-2,6-diaminoheptanedioyl-meso-2,6-diaminoheptanedioyl-meso-2,6-diaminoheptanedioyl-meso-2,6-diaminoheptanedioyl-meso-2,6-diaminoheptanedioyl-meso-2,6-diaminoheptanedioyl-meso-2,6-diaminoheptanedioyl-meso-2,6-diaminoheptanedioyl-meso-2,6-diaminoh

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-

 $acetylmuramate: L-alanyl-\gamma-D-glutamyl-meso-diaminopimelate\ ligase$ 

## **Product Information**

**Form** Liquid or lyophilized powder

**EC Number** EC 6.3.2.45

**Reaction** ATP + UDP-N-acetyl- $\alpha$ -D-muramate + L-alanyl- $\gamma$ -D-glutamyl-meso-2,6-diaminoheptanedioate = ADP +

phosphate + UDP-N-acetylmuramoyl-L-alanyl-γ-D-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.

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