

## **UDP-N-acetylmuramoyl-L-alanyl-D-glutamate-2,6-diaminopimelate ligase**

Cat. No. EXWM-5734

Lot. No. (See product label)

## Introduction

Description Involved in the synthesis of a cell-wall peptide in bacteria. This enzyme adds diaminopimelate in Gram-

negative organisms and in some Gram-positive organisms; in others EC 6.3.2.7 (UDP-N-acetylmuramoyl-L-alanyl-D-glutamate-L-lysine ligase) adds lysine instead. It is the amino group of the L-centre of the

diaminopimelate that is acylated.

Synonyms MurE synthetase [ambiguous]; UDP-N-acetylmuramoyl-L-alanyl-D-glutamate:meso-2,6-diamino-

heptanedioate ligase (ADP-forming); UDP-N-acetylmuramoyl-L-alanyl-D-glutamyl-meso-2,6-

diaminopimelate synthetase; UDP-N-acetylmuramoylalanyl-D-glutamate-2,6-diaminopimelate ligase; UDP-

N-acetylmuramoyl-L-alanyl-D-glutamate:meso-2,6-diaminoheptanedioate γ-ligase (ADP-forming)

## **Product Information**

**Form** Liquid or lyophilized powder

**EC Number** EC 6.3.2.13

*CAS No.* 9075-09-6

Reaction ATP + UDP-N-acetyl-α-D-muramoyl-L-alanyl-D-glutamate + meso-2,6-diaminoheptanedioate = ADP +

 $phosphate + UDP-N-acetyl-\alpha-D-muramoyl-L-alanyl-\gamma-D-glutamyl-meso-2, 6-diaminoheptanedioate$ 

**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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