

UDP-N-acetylmuramoyl-L-alanyl-D-glutamate-D-lysine ligase

Cat. No. EXWM-5754

Lot. No. (See product label)

Introduction

Description

Involved in the synthesis of cell-wall peptidoglycan. The D-lysine is attached to the peptide chain at the N6 position. The enzyme from *Thermotoga maritima* also performs the reaction of EC 6.3.2.7, UDP-N-acetylmuramoyl-L-alanyl-D-glutamate-L-lysine ligase.

Synonyms

UDP-MurNAc-L-Ala-D-Glu:D-Lys ligase; D-lysine-adding enzyme

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 6.3.2.37

Reaction

ATP + UDP-N-acetyl- α -D-muramoyl-L-alanyl-D-glutamate + D-lysine = ADP + phosphate + UDP-N-acetyl- α -D-muramoyl-L-alanyl- γ -D-glutamyl-N ϵ -D-lysine

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.