

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 $\text{ATP} + \text{UDP-N-acetyl-}\alpha\text{-D-muramoyl-L-alanyl-D-glutamate} + \text{D-lysine} = \text{ADP} + \text{phosphate} + \text{UDP-N-acetyl-}\alpha\text{-D-muramoyl-L-alanyl-}\gamma\text{-D-glutamyl-N}\epsilon\text{-D-lysine}$

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.