

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

Cat. No. EXWM-5770

Lot. No. (See product label)

Introduction

Description Involved in the synthesis of a cell-wall peptide in bacteria. This enzyme adds lysine in some Gram-positive organisms; in others and in Gram-negative organisms EC 6.3.2.13 (UDP-N-acetylmuramoyl-L-alanyl-D-glutamate-2,6-diaminopimelate ligase) adds 2,6-diaminopimelate instead.

Synonyms MurE synthetase; UDP-N-acetylmuramoyl-L-alanyl-D-glutamyl-L-lysine synthetase; uridine diphospho-N-acetylmuramoylalanyl-D-glutamyllysine synthetase; UPD-MurNAc-L-Ala-D-Glu:L-Lys ligase; UDP-N-acetylmuramoyl-L-alanyl-D-glutamate:L-lysine γ -ligase (ADP-forming)

Product Information

Form Liquid or lyophilized powder

EC Number EC 6.3.2.7

CAS No. 9023-51-2

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

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.