

## D-alanine-(R)-lactate ligase

Cat. No. EXWM-5665

Lot. No. (See product label)

### Introduction

#### Description

The product of this enzyme, the depsipeptide D-alanyl-(R)-lactate, can be incorporated into the peptidoglycan pentapeptide instead of the usual D-alanyl-D-alanine dipeptide, which is formed by EC 6.3.2.4, D-alanine-D-alanine ligase. The resulting peptidoglycan does not bind the glycopeptide antibiotics vancomycin and teicoplanin, conferring resistance on the bacteria.

#### Synonyms

VanA; VanB; VanD

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 6.1.2.1

#### Reaction

D-alanine + (R)-lactate + ATP = D-alanyl-(R)-lactate + ADP + phosphate

#### 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.