Creative Enzymes®

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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.