

## anhydro-N-acetylmuramic acid kinase

Cat. No. EXWM-3001

Lot. No. (See product label)

### Introduction

#### Description

This enzyme, along with EC 4.2.1.126, N-acetylmuramic acid 6-phosphate etherase, is required for the utilization of anhydro-N-acetylmuramic acid in proteobacteria. The substrate is either imported from the medium or derived from the bacterium's own cell wall murein during cell wall recycling. The product N-acetylmuramate 6-phosphate is produced as a 7:1 mixture of the  $\alpha$ - and  $\beta$ -anomers.

#### Synonyms

anhMurNAc kinase; AnmK

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 2.7.1.170

#### Reaction

$\text{ATP} + 1,6\text{-anhydro-N-acetyl-}\beta\text{-muramate} + \text{H}_2\text{O} = \text{ADP} + \text{N-acetylmuramate 6-phosphate}$

#### 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.