

## [pyruvate, water dikinase] kinase

Cat. No. EXWM-3154

Lot. No. (See product label)

### Introduction

#### Description

The enzyme from the bacterium *Escherichia coli* is bifunctional and catalyses both the phosphorylation and dephosphorylation of EC 2.7.9.2, pyruvate, water dikinase. cf. EC 2.7.4.28, ([pyruvate, water dikinase] phosphate) phosphotransferase. The enzyme is specific for a reaction intermediate form of EC 2.7.9.2, where it phosphorylates an active site histidine. It has no activity toward EC 2.7.9.1 pyruvate, phosphate dikinase (cf. EC 2.7.11.32, [pyruvate, phosphate dikinase] kinase).

#### Synonyms

PSRP (ambiguous); PEPS kinase

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 2.7.11.33

#### Reaction

ADP + [pyruvate, water dikinase] = AMP + [pyruvate, water dikinase] 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.