

## [pyruvate, phosphate dikinase] kinase

Cat. No. EXWM-3153

Lot. No. (See product label)

### Introduction

#### Description

The enzymes from the plants *Zea mays* (maize) and *Arabidopsis thaliana* are bifunctional and catalyse both the phosphorylation and dephosphorylation of EC 2.7.9.1 (pyruvate, phosphate dikinase). cf. EC 2.7.4.27, [pyruvate, phosphate dikinase]-phosphate phosphotransferase. The enzyme is specific for a reaction intermediate form of EC 2.7.9.1, and phosphorylates a threonine located adjacent to the catalytic histidine. The phosphorylation only takes place if the histidine is already phosphorylated.

#### Synonyms

PPDK regulatory protein (ambiguous); pyruvate; phosphate dikinase regulatory protein (ambiguous); bifunctional dikinase regulatory protein (ambiguous)

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 2.7.11.32

#### Reaction

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