Creative Enzymes®

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