Creative Enzymes®

phosphoenolpyruvate-protein phosphotransferase

Cat. No. EXWM-3189

Lot. No. (See product label)

Introduction

Description	Enzyme I of the phosphotransferase system (cf. EC 2.7.1.69 protein-Nπ-phosphohistidine-sugar phosphotransferase). Acts only on histidine residues in specific phosphocarrier proteins of low molecular mass (9.5 kDa) involved in bacterial sugar transport. A similar reaction, where the protein is the enzyme EC 2.7.9.2 pyruvate, water dikinase, is part of the mechanism of that enzyme.
Synonyms	phosphoenolpyruvate sugar phosphotransferase enzyme I; phosphopyruvate-protein factor phosphotransferase; phosphopyruvate-protein phosphotransferase; sugar-PEP phosphotransferase enzyme I; phosphoenolpyruvate:protein-L-histidine N-pros-phosphotransferase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.7.3.9
CAS No.	37278-17-4
Reaction	phosphoenolpyruvate + protein histidine = pyruvate + protein Nπ-phospho-L-histidine
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 ℃.