Creative Enzymes®

Native Corn Phospho (enol)pyruvate Carboxylase

Cat. No. NATE-0543

Lot. No. (See product label)

Introduction

Description	Phospho (enol)pyruvate carboxylase is a ubiquitous, highly regulated oligomeric, cytosolic enzyme in plants. Phospho (enol)pyruvate Carboxylase from corn was found to be highly susceptible to trypsin digestion.
Applications	Phospho (enol)pyruvate carboxylase has been used in a study to assess activity of carbon metabolism enzymes in wheat plants treated with kartolin-4 and exposed to water stress. It has also been used in a study to investigate the specific density of leaf as a characteristic of the photosynthetic apparatus.
Synonyms	phosphopyruvate (phosphate) carboxylase; PEP carboxylase; phosphoenolpyruvic carboxylase; PEPC; PEPCase; phosphate:oxaloacetate carboxy-lyase (phosphorylating); EC 4.1.1.31; 9067-77-0

Product Information

Source	Corn
Form	ammonium sulfate suspension; Suspension in 2.4 M (NH4)2SO4 solution containing 10 mM phosphate buffer, pH 7.0, 1 mM biotin, 5 mM dithiothreitol and 1 mM phenylmethylsulfonyl fluoride
EC Number	EC 4.1.1.31
CAS No.	9067-77-0
Activity	> 1 units/mg protein
Unit Definition	One unit will form 1.0 µmole of oxaloacetate from phospho (enol)pyruvate and CO2 per min at pH 8.5 at 25°C.

Storage and Shipping Information

Storage	2-8°C