

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

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CAS No.

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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