

## Phosphoenolpyruvate Carboxylase from Microorganism

**Product Code:** 164622

**EC no:** 4.1.1.31

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**SKU:** 164622

**Category:** [Enzymes](#)

## PRODUCT DESCRIPTION

### SPECIFICATIONS:

#### EC 4.1.1.31

**Product name:** Orthophosphate: oxaloacetate carboxy-lyase (phosphorylating)

**Appearance:** white amorphous powder, lyophilized

**Activity:** Grade III, 5.0 U/mg-solid or more

#### Contaminants:

- Lactate dehydrogenase:  $\leq 1.0 \times 10^{-3}$  %,
- Pyruvate kinase:  $\leq 0.5$  %

**Stability:** Stable at - 20 °C for at least 12 months

**Molecular weight:** Approx. 390,000 (by gel filtration)

**Structure:** 4 Subunits per mole of enzyme

**Isoelectric point** 6.0 + 0.1

**Michaelis constants:**  $1.9 \times 10^{-4}$  M (Phosphoenolpyruvate)

**Optimum pH:** 7.5 – 8.0

**Optimum temperature:** 60°C

**pH Stability:** pH 5.0 - 8.0 (25°C, 24hr)

**Thermal stability:** Below 40 °C (pH 7.0, 15min)