

Phosphoenolpyruvate Carboxylase from Microorganism

Product Code: 164622

EC no: 4.1.1.31

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: ≤ 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: 1.9×10^{-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)