

Native Baker's yeast (S. cerevisiae) Pyruvate Decarboxylase

Cat. No. NATE-0510

Lot. No. (See product label)

Introduction

| Description | Pyruvate decarboxylase (PDC) is a homotetrameric enzyme that catalyses the decarboxylation of pyruvic acid to acetaldehyde and carbon dioxide in the cytoplasm. Pyruvate decarboxylase depends on cofactors thiamine pyrophosphate (TPP) and magnesium. PDC contains a β - α - β structure, yielding parallel β -sheets. |
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| Applications | Pyruvate decarboxylase (PDC) is used to study residues involved in thiamine pyrophosphate (TPP) binding. It is used to study the regulation of fermentation pathways in plant species. |
| Synonyms | Pyruvate decarboxylase; EC 4.1.1.1; α-carboxylase (ambiguous); pyruvic decarboxylase; α-ketoacid carboxylase; 2-oxo-acid carboxy-lyase; 9001-04-1; 2-Oxo-acid carboxy-lyase; PDC |

Product Information

| Source | Baker's yeast (S. cerevisiae) |
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| Form | ammonium sulfate suspension; Suspension in 3.2 M (NH4)2SO4 pH 6.5, stabilized with 5% glycerol, 5 mM potassium phosphate, 1 mM magnesium acetate, 0.5 mM EDTA, and 25 μ M c ocarboxylase. |
| EC Number | EC 4.1.1.1 |
| CAS No. | 9001-04-1 |
| Activity | 5.0-20.0 units/mg protein (biuret) |
| Unit Definition | One unit will convert 1.0 μ mole of pyruvate to acetaldehyde per min at pH 6.0 at 25°C. |

Storage and Shipping Information

Storage 2-8°C