

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 $\beta\text{-}\alpha\text{-}\beta$ structure, yielding parallel $\beta\text{-}sheets.$

Applications Pyruvate decarboxylase (PDC) is used to study residues involved in thiamine

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)

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

1/1

EDTA, and 25 μM 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 μmole of pyruvate to acetaldehyde per min at pH 6.0 at

25°C.

Storage and Shipping Information

Storage 2-8°C

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