

Native Pyruvate decarboxylase from Thermophillic bacteria

Cat. No. NATE-1159 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.
Applications	C-C bond formation: ligation of two aldehyde molecules enantioselectively to 2-hydroxy ketones; preparation of (R)-phenylacetylcarbinol (PAC)
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
Form
EC Number
CAS No.
Optimum pH
Thermal stability
Buffer
Unit Definition
Buffer Unit Definition

Storage and Shipping Information

Storage Store at -20°C