

Native Aerococcuss viridans Pyruvate oxidase

Cat. No. DIA-169

Lot. No. (See product label)

Introduction

Description

In enzymology, a pyruvate oxidase (EC 1.2.3.3) is an enzyme that catalyzes the chemical reaction: pyruvate + phosphate + O₂ ↔ acetyl phosphate + CO₂ + H₂O₂. The 3 substrates of this enzyme are pyruvate, phosphate, and O₂, whereas its 3 products are acetyl phosphate, CO₂, and H₂O₂.

Applications

Useful for enzymatic determination of AST and ALT

Synonyms

pyruvate oxidase; EC 1.2.3.3; pyruvate: oxygen 2-oxidoreductase (phosphorylating); pyruvic oxidase; phosphate-dependent pyruvate oxidase

Product Information

Source

Aerococcuss viridans

Appearance

Yellowish powder

Form

Freeze dried powder

EC Number

EC 1.2.3.3

CAS No.

9001-96-1

Activity

> 25 U/mg

Contaminants

Lactate oxidase < 0.002%; Total AST (GOT) < 0.002%; Total ALT (GPT) < 0.006%; Catalase < 0.3%

pH Stability

6.0-7.0 (37°C, 60 mins)

Optimum pH

6.5-7.0

Thermal stability

Stable at 45°C and below (pH 6.4, 10 mins)

Storage and Shipping Information

Storage

Store in tightly closed containers, desiccated, protected from light, at -20°C.