

Native *Pediococcus* sp. Glycerol-3-phosphate oxidase

Cat. No. DIA-154

Lot. No. (See product label)

Introduction

Description

In enzymology, a glycerol-3-phosphate oxidase (EC 1.1.3.21) is an enzyme that catalyzes the chemical reaction: sn-glycerol 3-phosphate + O₂ ⇌ glycerone phosphate + H₂O₂. Thus, the two substrates of this enzyme are sn-glycerol 3-phosphate and O₂, whereas its two products are glycerone phosphate and H₂O₂.

Synonyms

glycerol-3-phosphate oxidase; EC 1.1.3.21; sn-glycerol-3-phosphate: oxygen 2-oxidoreductase; glycerol phosphate oxidase; glycerol-1-phosphate oxidase; glycerol phosphate oxidase; L-alpha-glycerophosphate oxidase; alpha-glycerophosphate oxidase; L-alpha-glycerol-3-phosphate oxidase

Product Information

Source

Pediococcus sp.

Appearance

Yellowish powder

Form

Freeze dried powder

EC Number

EC 1.1.3.21

CAS No.

9046-28-0

Activity

> 40 U/mg

pH Stability

6.5-8.5 (25°C, 20 hrs)

Optimum pH

8.0-8.5

Thermal stability

Stable at 40°C and below (pH 7.0, 15 mins)

Storage and Shipping Information

Storage

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