

Native Aerococcus viridans Glycerol 3-phosphate Oxidase

Cat. No. NATE-0314

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. This enzyme belongs to the family of oxidoreductases, specifically those acting on the CH-OH group of donor with oxygen as acceptor. This enzyme participates in glycerophospholipid metabolism. It employs one cofactor, FAD.
- SynonymsEC 1.1.3.21; glycerol phosphate oxidase; glycerol-1-phosphate oxidase; glycerol phosphate oxidase; L-α-
glycerophosphate oxidase; α-glycerophosphate oxidase; L-α-glycerol-3-phosphate oxidase; Glycerol 3-
phosphate Oxidase; 9046-28-0; sn-Glycerol 3-phosphate:oxygen 2-oxidoreductase; L-Glycerol 3-phosphate
Oxidase; GPO

Product Information

Source	Aerococcus viridans
Form	Lyophilized powder containing sucrose
EC Number	EC 1.1.3.21
CAS No.	9046-28-0
Activity	> 70 units/mg solid
Unit Definition	One unit will oxidize 1.0 μ mole of L-glycerol 3-phosphate to dihydroxyacetone phosphate with the formation of H2O2 per min at 37°C, at pH 8.1.

Storage and Shipping Information

Storage –20°C