

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.

Synonyms EC 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 μmole 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