

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.

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Storage and Shipping Information

Storage −20°C

Tel: 1-631-562-8517 1-516-512-3133 **Email:** info@creative-enzymes.com