

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

Product Information

Cat#	DIA-154
Abbr	Glycerol-3-phosphate oxidase (<i>Pediococcus</i> sp.)
Similar	Glycerol-3-phosphate oxidase
Source	<i>Pediococcus</i> sp.
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 + O ₂ ↔ glycerone phosphate + H ₂ O ₂ . Thus, the two substrates of this enzyme are sn-glycerol 3-phosphate and O ₂ , whereas its two products are glycerone phosphate and H ₂ O ₂ . 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.
Appearance	Yellowish powder
Product Overview	Native Glycerol-3-phosphate oxidase (EC 1.1.3.21) was purified from <i>Streptococcus</i> sp..
Form	Freeze dried powder
Enzyme Commission Number	EC 1.1.3.21
Activity	40 U/mg-solid or more (containing approx. 60% of stabilizers)
CAS No.	9046-28-0
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	Store in tightly closed containers, desiccated, protected from light, at -20°C.
Synonyms	glycerol-3-phosphate oxidase; EC 1.1.3.21; sn-glycerol-3-phosphate: oxygen



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Diagnostic Enzymes

Glycerol-3-phosphate oxidase from Pediococcus sp.

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

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