Creative Enzymes®

Native Pichia pastoris Alcohol Oxidase

Cat. No. NATE-0047

Lot. No. (See product label)

Introduction

Description	In enzymology, an alcohol oxidase (EC 1.1.3.13) is an enzyme that catalyzes the chemical reaction:a primary alcohol + O2↔ an aldehyde + H2O2. Thus, the two substRates of this enzyme are primary alcohol and O2, whereas its two products are aldehyde and H2O2. This enzyme belongs to the family of oxidoreductases, specifically those acting on the CH-OH group of donor with oxygen as acceptor. It employs one cofactor, FAD.
Applications	Alcohol Oxidase may be used to study protein translocation into peroxisomes. This product is from Pichia pastoris. It has been used for the bacterial expression and immunological verification of Hv-p68 cDNA clones.
Synonyms	EC 1.1.3.13; 9073-63-6; alcohol oxidase; ethanol oxidase; Alcohol:oxygen oxidoreductase

Product Information

Source	Pichia pastoris
Form	Buffered aqueous solution. Solution in 30% sucrose with 0.1 M phosphate buffer at pH 8.0
EC Number	EC 1.1.3.13
CAS No.	9073-63-6
Activity	10-40 units/mg protein (biuret)
Unit Definition	One unit will oxidize 1.0 µmole of methanol to formaldehyde per min at pH 7.5 at 25°C.

Storage and Shipping Information

Storage	−20°C