

Alcohol Oxidase

Cat: A6850

Specification: 250U

Storage: Store at -20°C, and it is valid for 2 years.

Product Information

CAS: 9073-63-6

English name: Alcohol Oxidase

Appearance (Character): Liquid, 30% sucrose solution containing 0.1M phosphate buffer (PH=8.0)

Source: Pichia

Grade: BR

Protein Content: ≥61mg/ml

Molecular Mass: 4,675 kDa (gel filtration)

Enzyme Activity/Potency: ≥10-40u/mg (protein)

Activity Definition: Oxidation of 1.0 uM methanol to formaldehyde per minute at pH 7.5 and 25°C

Introduction

Alcohol oxidase AOX is a homo-octamer with a molecular weight of 600-kDa. It has eight flavin adenine dinucleotide FAD cofactors. It belongs to the glucose-methanol-choline GMC oxidoreductase family.

Ethanol oxidase can be used to study the translocation of proteins to peroxisomes. This product is produced by Pichia pastoris. It has been used for bacterial expression and immunological validation of Hv-p68 cDNA cloning.

The Pichia pastoris-derived alcohol oxidase solution is used in the enzymatic determination of cotton pectin methyl esterase PME. It can also be immobilized on a polyaniline PANI film in the form of a visual biosensor for the determination of ethanol in fermented beverage samples in the form of a test strip.

Alcohol oxidase catalyzes the oxidation of short-chain primary fatty alcohols into their respective aldehydes. It has the highest affinity for methanol. Alcohol oxidase is involved in the metabolism of methanol, which is important for yeast that use methanol as their sole energy source. Ethanol oxidase mainly exists in peroxisomes, but may also exist in the cytoplasm.

Note

1. Unless otherwise specified, the biochemical reagents produced by our company are generally non-sterile packaged. If they are to be used for cell experiments, please conduct pretreatment in advance.
2. The product information is for reference only. If you have any questions, please call 400-968-6088 for consultation.

3. The products are all for scientific research use only. Do not use it for medical, clinical diagnosis or treatment, food and cosmetics, etc. Do not store them in ordinary residential areas.
4. For your safety and health, please wear laboratory clothes, disposable gloves and masks to operate.