

Active Native *Pichia pastoris* MOX Protein

Cat. No. MOX-01P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	This product is purified from <i>Pichia pastoris</i> and is supplied in a phosphate-buffered 30% sucrose solution. Cofactor: FAD, one molecule/subunit pH Range: 6.5-8.3 pH Optimum: 7.5 Temperature range: 18-45 centigrade Temperature optimum: 37 centigrade Inhibitor: H ₂ O ₂
Species	Yeast
Description	Alcohol oxidase (AOX) is a homooctamer with a molecular weight of 600 kDa. It contains eight flavin adenine dinucleotide (FAD) cofactors. It belongs to the glucose-methanol-choline (GMC) oxidoreductase family.
CAS	9073-63-6
Molecular Mass	675 kDa (octomer, gel filtration)
Bio-activity	10-40 units/mg protein
Unit Definition	One unit will oxidize 1.0 mole of methanol to formaldehyde per minute at pH 7.5 at 25 centigrade.
Stability	It remains active for at least 2 years when stored at -20 centigrade.
Storage	At -20 centigrade
Storage Buffer	Buffered aqueous solution

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Reconstitution	Alcohol oxidase is soluble in cold 100 mM potassium phosphate, pH 7.5, at 25 centigrade. Solutions should be prepared just before use.
Shipping	Dry Ice
Reference	1. Kato, N. et al., Agric. Biol. Chem., 38, 675 (1974). 2. Sahm, H. et al., Alcohol oxidase from Candida boidinii. Methods Enzymol., 89, 424-28 (1982). 3. Evers, M.E. et al., Assembly of alcohol oxidase in peroxisomes of the yeast Hansenula polymorpha requires the cofactor flavin adenine dinucleotide. Mol. Biol. Cell, 5, 829-37 (1994).
GENE INFORMATION	
Official Symbol	AOX
Synonyms	EC 1.1.3.13; oxygen oxidoreductase; Alcohol Oxidase; AOX

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