

## indole-3-acetaldehyde oxidase

Cat. No. EXWM-1214

Lot. No. (See product label)

### Introduction

#### Description

A hemoprotein. This enzyme is an isoform of aldehyde oxidase (EC 1.2.3.1). It has a preference for aldehydes having an indole-ring structure as substrate. It may play a role in plant hormone biosynthesis as its activity is higher in the auxin-overproducing mutant, super-root1, than in wild-type *Arabidopsis thaliana*. While (indol-3-yl)acetaldehyde is the preferred substrate, it also oxidizes indole-3-carbaldehyde and acetaldehyde, but more slowly. The enzyme from maize contains FAD, iron and molybdenum.

#### Synonyms

indoleacetaldehyde oxidase; IAAlD oxidase; AO1; indole-3-acetaldehyde:oxygen oxidoreductase

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.2.3.7

#### CAS No.

66082-22-2

#### Reaction

(indol-3-yl)acetaldehyde + H<sub>2</sub>O + O<sub>2</sub> = (indol-3-yl)acetate + H<sub>2</sub>O<sub>2</sub>

#### Notes

This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

### Storage and Shipping Information

#### Storage

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.