

## 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.