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 + H2O + O2 = (indol-3-yl)acetate + H2O2
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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.