Creative Enzymes®

aldehyde ferredoxin oxidoreductase

Cat. No. EXWM-1228

Lot. No. (See product label)

Introduction

Description	This is an oxygen-sensitive enzyme that contains tungsten-molybdopterin and iron-sulfur clusters. Catalyses the oxidation of aldehydes (including crotonaldehyde, acetaldehyde, formaldehyde and glyceraldehyde) to their corresponding acids. However, it does not oxidize glyceraldehyde 3-phosphate [see EC 1.2.7.6, glyceraldehyde-3-phosphate dehydrogenase (ferredoxin)]. Can use ferredoxin or methyl viologen but not NAD(P)+ as electron acceptor.
Synonyms	AOR

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.2.7.5
CAS No.	138066-90-7
Reaction	an aldehyde + H2O + 2 oxidized ferredoxin = a carboxylate + 2 H+ + 2 reduced ferredoxin
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 ℃.