Creative Enzymes®

2-alkenal reductase [NAD(P)+]

Cat. No. EXWM-1343

Lot. No. (See product label)

Introduction

Description	Highly specific for 4-hydroxynon-2-enal and non-2-enal. Alk-2-enals of shorter chain have lower affinities. Exhibits high activities also for alk-2-enones such as but-3-en-2-one and pent-3-en-2-one. Inactive with cyclohex-2-en-1-one and 12-oxophytodienoic acid. Involved in the detoxication of α,β-unsaturated aldehydes and ketones [cf. EC 1.3.1.102, 2-alkenal reductase (NADP+)].
Synonyms	NAD(P)H-dependent alkenal/one oxidoreductase; NADPH:2-alkenal α,β-hydrogenase; 2-alkenal reductase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.3.1.74
CAS No.	52227-95-9
Reaction	a n-alkanal + NAD(P)+ = an alk-2-enal + NAD(P)H + H+
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 ℃.