

## aurachin B dehydrogenase

Cat. No. EXWM-0314

Lot. No. (See product label)

## Introduction

**Description** The enzyme from the bacterium Stigmatella aurantiaca catalyses the final step in the conversion of

aurachin C to aurachin B. In vivo the enzyme catalyses the reduction of 4-hydroxy-2-methyl-3-oxo-4-[(2E,6E)-farnesyl]-3,4-dihydroquinoline-1-oxide to form 2-methyl-1-oxo-4-[(2E,6E)-farnesyl]-3,4-dihydroquinoline-3,4-diol (note that the reactions written above proceed from right to left), which then

undergoes a spontaneous dehydration to form aurachin B.

**Synonyms** AuaH

## **Product Information**

**Form** Liquid or lyophilized powder

**EC Number** EC 1.1.1.394

Reaction aurachin B + NAD+ + H2O = 4-hydroxy-2-methyl-3-oxo-4-[(2E,6E)-farnesyl]-3,4-dihydroquinoline 1-oxide

+ NADH + H+ (overall reaction); (1a) 3,4-dihydroxy-2-methy-4-[(2E,6E)-farnesyl]-3,4-dihydroquinoline 1-oxide + NAD+ = 4-hydroxy-2-methyl-3-oxo-4-[(2E,6E)-farnesyl]-3,4-dihydroquinoline 1-oxide + NADH + H+; (1b) aurachin B + H2O = 3,4-dihydroxy-2-methyl-4-[(2E,6E)-farnesyl]-3,4-dihydroquinoline 1-oxide

(spontaneous)

**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

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

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