

## renalase

Cat. No. EXWM-1587

Lot. No. (See product label)

### Introduction

#### Description

Requires FAD. Renalase, previously thought to be a hormone, is a flavoprotein secreted into the blood by the kidney that oxidizes the 1,2-dihydro- and 1,6-dihydro- isomeric forms of  $\beta$ -NAD(P)H back to  $\beta$ -NAD(P)+. These isomeric forms, generated by nonspecific reduction of  $\beta$ -NAD(P)+ or by tautomerization of  $\beta$ -NAD(P)H, are potent inhibitors of primary metabolism dehydrogenases and pose a threat to normal respiration.

#### Synonyms

$\alpha$ NAD(P)H oxidase/anomerase (incorrect); NAD(P)H: oxygen oxidoreductase (H<sub>2</sub>O<sub>2</sub>-forming, epimerising) (incorrect)

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.6.3.5

#### Reaction

(1) 1,2-dihydro- $\beta$ -NAD(P) + H+ + O<sub>2</sub> =  $\beta$ -NAD(P)+ + H<sub>2</sub>O<sub>2</sub>; (2) 1,6-dihydro- $\beta$ -NAD(P) + H+ + O<sub>2</sub> =  $\beta$ -NAD(P)+ + 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.