Creative Enzymes®

# renalase

*Cat. No. EXWM-1587*

*Lot. No.* (See product label)

## Introduction

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| ***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 β-NAD(P)H back to β-NAD(P)+. These isomeric forms, generated by nonspecific reduction of β-NAD(P)+ or by tautomerization of β-NAD(P)H, are potent inhibitors of primary metabolism dehydrogenases and pose a threat to normal respiration. |
| ***Synonyms*** | αNAD(P)H oxidase/anomerase (incorrect); NAD(P)H:oxygen oxidoreductase (H2O2-forming, epimerising) (incorrect) |

## Product Information

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| ***Form*** | Liquid or lyophilized powder |
| ***EC Number*** | EC 1.6.3.5 |
| ***Reaction*** | (1) 1,2-dihydro-β-NAD(P) + H+ + O2 = β-NAD(P)+ + H2O2; (2) 1,6-dihydro-β-NAD(P) + H+ + O2 = β-NAD(P)+ + 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

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| ***Storage*** | Store it at +4 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃. |