Creative Enzymes®

# benzaldehyde dehydrogenase (NADP+)

*Cat. No. EXWM-1171*

*Lot. No.* (See product label)

## Introduction

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| ***Description*** | This enzyme belongs to the family of oxidoreductases, specifically those acting on the aldehyde or oxo group of donor with NAD+ or NADP+ as acceptor. The systematic name of this enzyme class is benzaldehyde:NADP+ oxidoreductase. Other names in common use include NADP+-linked benzaldehyde dehydrogenase, and benzaldehyde dehydrogenase (NADP+). This enzyme participates in benzoate degradation via hydroxylation and toluene and xylene degradation. |
| ***Synonyms*** | NADP-linked benzaldehyde dehydrogenase; benzaldehyde dehydrogenase (NADP) |

## Product Information

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| ***Form*** | Liquid or lyophilized powder |
| ***EC Number*** | EC 1.2.1.7 |
| ***CAS No.*** | 9028-89-1 |
| ***Reaction*** | benzaldehyde + NADP+ + H2O = benzoate + NADPH + 2 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

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