Creative Enzymes®

# phosphogluconate 2-dehydrogenase

*Cat. No. EXWM-0328*

*Lot. No.* (See product label)

## Introduction

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| ***Description*** | This enzyme belongs to the family of oxidoreductases, specifically those acting on the CH-OH group of donor with NAD+ or NADP+ as acceptor. The systematic name of this enzyme class is 6-phospho-D-gluconate:NAD(P)+ 2-oxidoreductase. Other names in common use include 6-phosphogluconic dehydrogenase, phosphogluconate dehydrogenase, gluconate 6-phosphate dehydrogenase, 6-phosphogluconate dehydrogenase (NAD+), and 2-keto-6-phosphogluconate reductase. This enzyme participates in pentose phosphate pathway and glutathione metabolism. |
| ***Synonyms*** | 6-phosphogluconic dehydrogenase; phosphogluconate dehydrogenase; gluconate 6-phosphate dehydrogenase; 6-phosphogluconate dehydrogenase (NAD); 2-keto-6-phosphogluconate reductase |

## Product Information

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| ***Form*** | Liquid or lyophilized powder |
| ***EC Number*** | EC 1.1.1.43 |
| ***CAS No.*** | 9001-82-5 |
| ***Reaction*** | 6-phospho-D-gluconate + NAD(P)+ = 6-phospho-2-dehydro-D-gluconate + 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

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