Creative Enzymes®

# Thermostable Bacterial Glucose-6-Phosphate Dehydrogenase

*Cat. No. CEGZ-6388*

*Lot. No.* (See product label)

## Introduction

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| ***Description*** | A recombinant bacterial glucose-6-phosphate dehydrogenase with high thermal stability, produced in E. coli and purified by heat treatment and His6-tag affinity chromatography. |
| ***Applications*** | For research and in vitro use in reactions involving glucose-6-phosphate oxidation and NADP+/NADPH conversion. |
| ***Synonyms*** | G6PDH; 6-phosphoglucose dehydrogenase; D-glucose 6-phosphate dehydrogenase; Entner-Doudoroff enzyme; G6PD; GPD; NADP-dependent glucose 6-phosphate dehydrogenase; D-glucose-6-phosphate:NADP+ 1-oxidoreductase |

## Product Information

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| ***Species*** | Bacterial |
| ***Source*** | Recombinant E. coli |
| ***Form*** | Liquid |
| ***EC Number*** | EC 1.1.1.49 |
| ***CAS No.*** | 9001-40-5 |
| ***Molecular Weight*** | 45.8 kDa |
| ***Thermal stability*** | Thermostable up to 80°C |
| ***Substrates*** | D-glucose 6-phosphate; NADP+ |
| ***Reaction*** | D-glucose 6-phosphate + NADP+ = 6-phospho-D-glucono-1,5-lactone + NADPH + H+ |
| ***Notes*** | Recombinant protein produced in E. coli and purified by heat treatment and His6-tag affinity chromatography. |
| ***Usage*** | Research and in vitro use only. |

## Storage and Shipping Information

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| ***Storage*** | -20°C |