

Thermostable Bacterial Glucose-6-Phosphate Dehydrogenase

Cat. No. CEGZ-6388

Lot. No. (See product label)

Introduction

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

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

Storage

-20°C