

Thermostable Bacterial Phosphopentomutase, 80°C

Cat. No. CEGZ-6429

Lot. No. (See product label)

Introduction

Description A recombinant bacterial phosphopentomutase with thermal stability up to 80°C for high-temperature pentose-phosphate isomerization workflows.

Applications For research and in vitro interconversion of ribose and deoxyribose phosphate isomers at elevated temperatures.

Synonyms PPM; phosphoribomutase; alpha-D-ribose-1,5-phosphomutase; deoxyribomutase; deoxyribose phosphomutase; phosphodeoxyribomutase

Product Information

Species Bacterial

Source Recombinant E. coli

Form Liquid

EC Number EC 5.4.2.7

CAS No. 9026-77-1

Molecular Weight 44.7 kDa

Thermal stability Thermostable up to 80°C

Specificity Alpha-D-ribose 1-phosphate and 2-deoxy-alpha-D-ribose 1-phosphate.

Substrates Alpha-D-ribose 1-phosphate; 2-deoxy-alpha-D-ribose 1-phosphate

Reaction Alpha-D-ribose 1-phosphate = D-ribose 5-phosphate
2-deoxy-alpha-D-ribose 1-phosphate = 2-deoxy-D-ribose 5-phosphate

Notes Recombinant protein produced in E. coli and purified by heat treatment and His-tag affinity chromatography. Optimal reaction time and enzyme concentration may vary depending on the substrate.

Usage Research and in vitro use only.

Storage and Shipping Information

Storage -20°C