Creative Enzymes®

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