

Thermostable Bacterial Phosphopentomutase, 60°C

Cat. No. CEGZ-6428

Lot. No. (See product label)

Introduction

Description

A recombinant bacterial phosphopentomutase with thermal stability up to 60°C that interconverts pentose 1-phosphates and 5-phosphates.

Applications

For research and in vitro interconversion of ribose and deoxyribose phosphate isomers in nucleoside and pentose-phosphate workflows.

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

45.1 kDa

Thermal stability

Thermostable up to 60°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