

erythrose-4-phosphate dehydrogenase

Cat. No. EXWM-1174

Lot. No. (See product label)

Introduction

Description

This enzyme was originally thought to be a glyceraldehyde-3-phosphate dehydrogenase (EC 1.2.1.12), but this has since been disproved, as glyceraldehyde 3-phosphate is not a substrate. Forms part of the pyridoxal-5'-phosphate coenzyme biosynthesis pathway in Escherichia coli, along with EC 1.1.1.290 (4-phosphoerythronate dehydrogenase), EC 2.6.1.52 (phosphoserine transaminase), EC 1.1.1.262 (4-hydroxythreonine-4-phosphate dehydrogenase), EC 2.6.99.2 (pyridoxine 5'-phosphate synthase) and EC 1.4.3.5 (pyridoxamine-phosphate oxidase).

Synonyms

erythrose 4-phosphate dehydrogenase; E4PDH; GapB; Epd dehydrogenase; E4P dehydrogenase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.2.1.72

CAS No.

131554-04-6

Reaction

D-erythrose 4-phosphate + NAD⁺ + H₂O = 4-phosphoerythronate + NADH + 2 H⁺

Notes

This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.