Creative Enzymes®

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, asglyceraldehyde 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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.