Creative Enzymes®

3-deoxy-7-phosphoheptulonate synthase

Cat. No. EXWM-2791

Lot. No. (See product label)

Introduction

Description	3-Deoxy-D-arabinoheptulosonate 7-phosphate (DAHP) synthase (EC 2.5.1.54) is the first enzyme in a series of metabolic reactions known as the shikimate pathway, which is responsible for the biosynthesis of the amino acids phenylalanine, tyrosine, and tryptophan.
Synonyms	2-dehydro-3-deoxy-phosphoheptonate aldolase; 2-keto-3-deoxy-D-arabino-heptonic acid 7-phosphate synthetase; 3-deoxy-D-arabino-2-heptulosonic acid 7-phosphate synthetase; 3-deoxy-D-arabino-heptolosonate-7-phosphate synthetase; 3-deoxy-D-arabino-heptulosonate 7-phosphate synthetase; 7-phospho-2-keto-3-deoxy-D-arabino-heptonate D-erythrose-4-phosphate lyase (pyruvate-phosphorylating); 7-phospho-2-dehydro-3-deoxy-D-arabino-heptonate D-erythrose-4-phosphate lyase (pyruvate-phosphorylating); D-erythrose-4-phosphate-lyase; D-erythrose-4-phosphate-lyase (pyruvate-phosphorylating); DAH7-P synthase; DAHP synthase; DS-Co; DS-Mn; KDPH synthase; KDPH synthetase; deoxy-D-arabino-heptulosonate-7-phosphate synthetase; phospho-2-dehydro-3-deoxyheptonate aldolase; phospho-2-keto-3-deoxyheptanoate aldolase; phospho-2-keto-3-deoxyheptonate aldolase; phospho-2-keto-3-deoxyheptonic aldolase; phospho-2-oxo-3-deoxyheptonate aldolase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.5.1.54
CAS No.	9026-94-2
Reaction	phosphoenolpyruvate + D-erythrose 4-phosphate + H2O = 3-deoxy-D-arabino-hept-2-ulosonate 7-phosphate + phosphate
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 ℃.