

4-phosphopantoate-β-alanine ligase

Cat. No. EXWM-5753

Lot. No. (See product label)

Introduction

Description The conversion of (R)-pantoate to (R)-4'-phosphopantothenate is part of the pathway leading to

biosynthesis of 4'-phosphopantetheine, an essential cofactor of coenzyme A and acyl-carrier protein. In bacteria and eukaryotes this conversion is performed by condensation with β -alanine, followed by phosphorylation (EC 6.3.2.1 [pantoate- β -alanine ligase] and EC 2.7.1.33 [pantothenate kinase], respectively). In archaea the order of these two steps is reversed, and phosphorylation precedes condensation with β -alanine. The two archaeal enzymes that catalyse this conversion are EC 2.7.1.169,

pantoate kinase, and this enzyme.

Synonyms phosphopantothenate synthetase; TK1686 protein

Product Information

Form Liquid or lyophilized powder

EC Number EC 6.3.2.36

Reaction ATP + (R)-4-phosphopantoate + β -alanine = AMP + diphosphate + (R)-4'-phosphopantothenate

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

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

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1/1