

## dihydropteroate synthase

Cat. No. EXWM-2751

Lot. No. (See product label)

### Introduction

#### Description

The enzyme participates in the biosynthetic pathways for folate (in bacteria, plants and fungi) and methanopterin (in archaea). The enzyme exists in varying types of multifunctional proteins in different organisms. The enzyme from the plant *Arabidopsis thaliana* also harbors the activity of EC 2.7.6.3, 2-amino-4-hydroxy-6-hydroxymethyldihydropteridine diphosphokinase, while the enzyme from yeast *Saccharomyces cerevisiae* is trifunctional with the two above mentioned activities as well as EC 4.1.2.25, dihydroneopterin aldolase.

#### Synonyms

dihydropteroate pyrophosphorylase; DHPS; 7,8-dihydropteroate synthase; 7,8-dihydropteroate synthetase; 7,8-dihydropteroic acid synthetase; dihydropteroate synthetase; dihydropteroic synthetase; 2-amino-4-hydroxy-6-hydroxymethyl-7,8-dihydropteridine-diphosphate:4-aminobenzoate 2-amino-4-hydroxydihydropteridine-6-methenyltransferase; (2-amino-4-hydroxy-7,8-dihydropteridin-6-yl)methyl-diphosphate:4-aminobenzoate 2-amino-4-hydroxydihydropteridine-6-methenyltransferase

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 2.5.1.15

#### CAS No.

9055-61-2

#### Reaction

(7,8-dihydropteridin-6-yl)methyl diphosphate + 4-aminobenzoate = diphosphate + 7,8-dihydropteroate

#### 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.