

## 2-amino-4-hydroxy-6-hydroxymethyldihydropteridine diphosphokinase

Cat. No. EXWM-3222

Lot. No. (See product label)

### Introduction

#### Description

Binds 2 Mg<sup>2+</sup> ions that are essential for activity. 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 bacterium *Streptococcus pneumoniae* also harbours the activity of EC 4.1.2.25, dihydroneopterin aldolase, the enzyme from the plant *Arabidopsis thaliana* harbours the activity of EC 2.5.1.15, dihydropteroate synthase, while the enzyme from yeast *Saccharomyces cerevisiae* is trifunctional with both of the two above mentioned activities.

#### Synonyms

2-amino-4-hydroxy-6-hydroxymethyldihydropteridine pyrophosphokinase; H2-pteridine-CH<sub>2</sub>OH pyrophosphokinase; 7,8-dihydroxymethylpterin-pyrophosphokinase; HPPK; 7,8-dihydro-6-hydroxymethylpterin pyrophosphokinase; hydroxymethyldihydropteridine pyrophosphokinase; ATP:2-amino-4-hydroxy-6-hydroxymethyl-7,8-dihydropteridine 6'-diphosphotransferase

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 2.7.6.3

#### CAS No.

37278-23-2

#### Reaction

ATP + 6-hydroxymethyl-7,8-dihydropterin = AMP + 6-hydroxymethyl-7,8-dihydropterin diphosphate

#### 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.