Creative Enzymes®

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

Cat. No. EXWM-3222

Lot. No. (See product label)

Introduction

Description	Binds 2 Mg2+ 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-CH2OH 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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.