Creative Enzymes®

# 6-carboxytetrahydropterin synthase

*Cat. No. EXWM-4887*

*Lot. No.* (See product label)

## Introduction

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|---|---|
| ***Description*** | Binds Zn2+. Isolated from the bacteria Bacillus subtilis and Escherichia coli. The reaction is part of the biosynthesis pathway of queuosine.The enzyme from Escherichia coli can also convert 6-pyruvoyl-5,6,7,8-tetrahydropterin and sepiapterin to 6-carboxy-5,6,7,8-tetrahydropterin. |
| ***Synonyms*** | CPH4 synthase; queD (gene name); ToyB; ykvK (gene name) |

## Product Information

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|---|---|
| ***Form*** | Liquid or lyophilized powder |
| ***EC Number*** | EC 4.1.2.50 |
| ***Reaction*** | 7,8-dihydroneopterin 3'-triphosphate + H2O = 6-carboxy-5,6,7,8-tetrahydropterin + acetaldehyde + triphosphate |
| ***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

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| ***Storage*** | Store it at +4 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃. |