

dihydroneopterin aldolase

Cat. No. EXWM-4864

Lot. No. (See product label)

Introduction

Description

The enzyme participates in folate (in bacteria, plants and fungi) and methanopterin (in archaea) biosynthesis. The enzymes from the bacterium *Escherichia coli* and the plant *Arabidopsis thaliana* also catalyse the epimerisation of the 2' hydroxy-group (EC 5.1.99.8, 7,8-dihydroneopterin epimerase). The enzyme from the bacterium *Mycobacterium tuberculosis* is trifunctional and also catalyses EC 5.1.99.8 and EC 1.13.11.81, 7,8-dihydroneopterin oxygenase. The enzyme from the yeast *Saccharomyces cerevisiae* also catalyses the two subsequent steps in the folate biosynthesis pathway - EC 2.7.6.3, 2-amino-4-hydroxy-6-(hydroxymethyl)dihydropteridine diphosphokinase, and EC 2.5.1.15, dihydropteroate synthase.

Synonyms

7,8-dihydroneopterin aldolase; 2-amino-4-hydroxy-6-(D-erythro-1,2,3-trihydroxypropyl)-7,8-dihydropteridine glycolaldehyde-lyase; 2-amino-4-hydroxy-6-(D-erythro-1,2,3-trihydroxypropyl)-7,8-dihydropteridine glycolaldehyde-lyase (2-amino-4-hydroxy-6-hydroxymethyl-7,8-dihydropteridine-forming); DHNA; mptD (gene name); folB (gene name)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 4.1.2.25

CAS No.

37290-59-8

Reaction

7,8-dihydroneopterin = 6-(hydroxymethyl)-7,8-dihydropterin + glycolaldehyde

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.