Creative Enzymes®

dihydrofolate synthase

Cat. No. EXWM-5733

Lot. No. (See product label)

Introduction

Description	In some bacteria, a single protein catalyses both this activity and that of EC 6.3.2.17, tetrahydrofolate synthase, the combined activity of which leads to the formation of the coenzyme polyglutamated tetrahydropteroate (H4PteGlun), i.e. various tetrahydrofolates. In contrast, the activities are located on separate proteins in most eukaryotes studied to date. This enzyme is reponsible for attaching the first glutamate residue to dihydropteroate to form dihydrofolate and is present only in those organisms that have the ability to synthesize tetrahydrofolate de novo, e.g. plants, most bacteria, fungi and protozoa.
Synonyms	dihydrofolate synthetase; 7,8-dihydrofolate synthetase; H2-folate synthetase; 7,8-dihydropteroate:L-glutamate ligase (ADP); dihydropteroate:L-glutamate ligase (ADP-forming); DHFS

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 6.3.2.12
CAS No.	37318-62-0
Reaction	ATP + 7,8-dihydropteroate + L-glutamate = ADP + phosphate + 7,8-dihydropteroylglutamate
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 ℃.