Creative Enzymes®

6-pyruvoyltetrahydropterin synthase

Cat. No. EXWM-5132

Lot. No. (See product label)

Introduction

Description	Catalyses triphosphate elimination and an intramolecular redox reaction in the presence of Mg2+. It has been identified in human liver. This enzyme is involved in the de novo synthesis of tetrahydrobiopterin from GTP, with the other enzymes involved being EC 1.1.1.153 (sepiapterin reductase) and EC 3.5.4.16 (GTP cyclohydrolase I).
Synonyms	2-amino-4-oxo-6-[(1S,2R)-1,2-dihydroxy-3-triphosphooxypropyl]-7,8-dihydroxypteridine triphosphate lyase; 6-[(1S,2R)-1,2-dihydroxy-3-triphosphooxypropyl]-7,8-dihydropterin triphosphate-lyase (6-pyruvoyl-5,6,7,8-tetrahydropterin-forming)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 4.2.3.12
CAS No.	97089-82-2
Reaction	7,8-dihydroneopterin 3'-triphosphate = 6-pyruvoyl-5,6,7,8-tetrahydropterin + 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

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