Creative Enzymes®

sepiapterin reductase (L-threo-7,8-dihydrobiopterin forming)

Cat. No. EXWM-0238

Lot. No. (See product label)

Introduction

Description This enzyme, isolated from the bacterium Chlorobium tepidum, catalyses the final step in the de novo synthesis of tetrahydrobiopterin from GTP. cf. EC 1.1.1.153, sepiapterin reductase (L-erythro-7,8-dihydrobiopterin forming).

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.1.1.325

CAS No. 9059-48-7

Reaction (1) L-threo-7,8-dihydrobiopterin + NADP+ = sepiapterin + NADPH + H+; (2) L-threo-tetrahydrobiopterin + 2 NADP+ = 6-pyruvoyl-5,6,7,8-tetrahydropterin + 2 NADPH + 2 H+

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 ℃.