Creative Enzymes®

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

Cat. No. EXWM-0058

Lot. No. (See product label)

Introduction

Description	This enzyme catalyses the final step in the de novo synthesis of tetrahydrobiopterin from GTP. The enzyme, which is found in higher animals and some fungi and bacteria, produces the erythro form of tetrahydrobiopterin. cf. EC 1.1.1.325, sepiapterin reductase (L-threo-7,8-dihydrobiopterin forming).
Synonyms	SR

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.1.1.153
CAS No.	9059-48-7
Reaction	(1) L-erythro-7,8-dihydrobiopterin + NADP+ = sepiapterin + NADPH + H+; (2) L-erythro-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 ℃.