

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 °C for short term. For long term storage, store it at -20 °C~-80 °C.