

hydroxymethylglutaryl-CoA synthase

Cat. No. EXWM-2311

Lot. No. (See product label)

Introduction

Description In molecular biology, Hydroxymethylglutaryl-CoA synthase or HMG-CoA synthase EC 2.3.3.10 is an enzyme which catalyzes the reaction in which Acetyl-CoA condenses with acetoacetyl-CoA to form 3-hydroxy-3-methylglutaryl-CoA (HMG-CoA). It is the second reaction in the mevalonate-dependent isoprenoid biosynthesis pathway.

Synonyms (S)-3-hydroxy-3-methylglutaryl-CoA acetoacetyl-CoA-lyase (CoA-acetylating); 3-hydroxy-3-methylglutaryl CoA synthetase; 3-hydroxy-3-methylglutaryl coenzyme A synthase; 3-hydroxy-3-methylglutaryl coenzyme A synthetase; 3-hydroxy-3-methylglutaryl-CoA synthase; 3-hydroxy-3-methylglutaryl-coenzyme A synthase; β -hydroxy- β -methylglutaryl-CoA synthase; HMG-CoA synthase; acetoacetyl coenzyme A transacetase; hydroxymethylglutaryl coenzyme A synthase; hydroxymethylglutaryl coenzyme A-condensing enzyme

Product Information

Form Liquid or lyophilized powder

EC Number EC 2.3.3.10

CAS No. 9027-44-5

Reaction $\text{acetyl-CoA} + \text{H}_2\text{O} + \text{acetoacetyl-CoA} = (\text{S})\text{-3-hydroxy-3-methylglutaryl-CoA} + \text{CoA}$

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.