

## 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;  $\beta$ -hydroxy- $\beta$ -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

acetyl-CoA + H<sub>2</sub>O + acetoacetyl-CoA = (S)-3-hydroxy-3-methylglutaryl-CoA + 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.