

## acetoacetyl-CoA reductase

Cat. No. EXWM-0276

Lot. No. (See product label)

### Introduction

#### Description

This enzyme belongs to the family of oxidoreductases, specifically those acting on the CH-OH group of donor with NAD<sup>+</sup> or NADP<sup>+</sup> as acceptor. The systematic name of this enzyme class is (R)-3-hydroxyacyl-CoA:NADP<sup>+</sup> oxidoreductase. Other names in common use include acetoacetyl coenzyme A reductase, hydroxyacyl coenzyme-A dehydrogenase, NADP<sup>+</sup>-linked acetoacetyl CoA reductase, NADPH:acetoacetyl-CoA reductase, D(-)-beta-hydroxybutyryl CoA-NADP<sup>+</sup> oxidoreductase, short chain beta-ketoacetyl(acetoacetyl)-CoA reductase, beta-ketoacyl-CoA reductase, D-3-hydroxyacyl-CoA reductase, and (R)-3-hydroxyacyl-CoA dehydrogenase. This enzyme participates in butanoate metabolism.

#### Synonyms

acetoacetyl coenzyme A reductase; hydroxyacyl coenzyme-A dehydrogenase; NADP-linked acetoacetyl CoA reductase; NADPH:acetoacetyl-CoA reductase; D(-)-β-hydroxybutyryl CoA-NADP oxidoreductase; short chain β-ketoacetyl(acetoacetyl)-CoA reductase; β-ketoacyl-CoA reductase; D-3-hydroxyacyl-CoA reductase; (R)-3-hydroxyacyl-CoA dehydrogenase

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.1.1.36

#### CAS No.

9028-41-5

#### Reaction

(R)-3-hydroxyacyl-CoA + NADP<sup>+</sup> = 3-oxoacyl-CoA + NADPH + H<sup>+</sup>

#### 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.