Creative Enzymes®

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+ or NADP+ as acceptor. The systematic name of this enzyme class is (R)-3-hydroxyacyl-CoA:NADP+ oxidoreductase. Other names in common use include acetoacetyl coenzyme A reductase, hydroxyacyl coenzyme-A dehydrogenase, NADP+-linked acetoacetyl CoA reductase, NADPH:acetoacetyl-CoA reductase, D(−)-beta-hydroxybutyryl CoA-NADP+ 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+ = 3-oxoacyl-CoA + NADPH + 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 ℃.