

## 3-hydroxybutyryl-CoA dehydrogenase

Cat. No. EXWM-0061

Lot. No. (See product label)

### Introduction

#### Description

This enzyme belongs to the family of oxidoreductases, to be specific 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 (S)-3-hydroxybutanoyl-CoA:NADP<sup>+</sup> oxidoreductase. Other names in common use include beta-hydroxybutyryl coenzyme A dehydrogenase, L-(+)-3-hydroxybutyryl-CoA dehydrogenase, BHBD, dehydrogenase, L-3-hydroxybutyryl coenzyme A (nicotinamide adenine, dinucleotide phosphate), L-(+)-3-hydroxybutyryl-CoA dehydrogenase, and beta-hydroxybutyryl-CoA dehydrogenase. This enzyme participates in benzoate degradation via coa ligation and butanoate metabolism.

#### Synonyms

β-hydroxybutyryl coenzyme A dehydrogenase; L-(+)-3-hydroxybutyryl-CoA dehydrogenase; BHBD; dehydrogenase, L-3-hydroxybutyryl coenzyme A (nicotinamide adenine dinucleotide phosphate); L-(+)-3-hydroxybutyryl-CoA dehydrogenase; β-hydroxybutyryl-CoA dehydrogenase

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.1.1.157

#### CAS No.

39319-78-3

#### Reaction

(S)-3-hydroxybutanoyl-CoA + NADP<sup>+</sup> = 3-acetoacetyl-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.