

## 3 $\beta$ -hydroxycholanate 3-dehydrogenase (NAD<sup>+</sup>)

Cat. No. EXWM-0311

Lot. No. (See product label)

### Introduction

#### Description

This bacterial enzyme is involved, along with EC 1.1.1.52, 3 $\alpha$ -hydroxycholanate dehydrogenase (NAD<sup>+</sup>), or EC 1.1.1.392, 3 $\alpha$ -hydroxycholanate dehydrogenase (NADP<sup>+</sup>), in the modification of secondary bile acids to form 3 $\beta$ -bile acids (also known as iso-bile acids). The enzyme catalyses the reaction in the reduction direction in vivo. Also acts on related 3-oxo bile acids. cf. EC 1.1.1.393, 3 $\beta$ -hydroxycholanate 3-dehydrogenase (NADP<sup>+</sup>).

#### Synonyms

3 $\beta$ -hydroxysteroid dehydrogenase

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.1.1.391

#### Reaction

isolithocholate + NAD<sup>+</sup> = 3-oxo-5 $\beta$ -cholan-24-oate + NADH + 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.