

## 2-glutathionyl-2-methylbut-3-en-1-ol dehydrogenase

Cat. No. EXWM-0318

Lot. No. (See product label)

### Introduction

#### Description

The enzyme, characterized from the bacterium *Rhodococcus* sp. AD45, is involved in isoprene degradation.

#### Synonyms

isoH (gene name); 4-hydroxy-3-glutathionyl-3-methylbut-1-ene dehydrogenase

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.1.1.398

#### Reaction

2-(glutathion-S-yl)-2-methylbut-3-en-1-ol + 2 NAD<sup>+</sup> + H<sub>2</sub>O = 2-(glutathion-S-yl)-2-methylbut-3-enoate + 2 NADH + 2 H<sup>+</sup> (overall reaction); (1a) 2-(glutathion-S-yl)-2-methylbut-3-en-1-ol + NAD<sup>+</sup> = 2-(glutathion-S-yl)-2-methylbut-3-enal + NADH + H<sup>+</sup>; (1b) 2-(glutathion-S-yl)-2-methylbut-3-enal + NAD<sup>+</sup> + H<sub>2</sub>O = 2-(glutathion-S-yl)-2-methylbut-3-enoate + 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.