

## 4-hydroxy-tetrahydrodipicolinate reductase

Cat. No. EXWM-1084

Lot. No. (See product label)

### Introduction

#### Description

Studies of the enzyme from the bacterium *Escherichia coli* have shown that the enzyme accepts (2S,4S)-4-hydroxy-2,3,4,5-tetrahydrodipicolinate and not (S)-2,3-dihydrodipicolinate as originally thought.

#### Synonyms

dihydrodipicolinate reductase (incorrect); dihydrodipicolinic acid reductase (incorrect); 2,3,4,5-tetrahydrodipicolinate:NAD(P)<sup>+</sup> oxidoreductase (incorrect); dapB (gene name)

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.17.1.8

#### Reaction

(S)-2,3,4,5-tetrahydropyridine-2,6-dicarboxylate + NAD(P)<sup>+</sup> + H<sub>2</sub>O = (2S,4S)-4-hydroxy-2,3,4,5-tetrahydrodipicolinate + NAD(P)H + 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.