

## prephenate dehydrogenase (NADP+)

Cat. No. EXWM-1287

Lot. No. (See product label)

### Introduction

#### Description

This enzyme belongs to the family of oxidoreductases, specifically those acting on the CH-CH group of donor with NAD<sup>+</sup> or NADP<sup>+</sup> as acceptor. The systematic name of this enzyme class is prephenate:NADP<sup>+</sup> oxidoreductase (decarboxylating). Other names in common use include prephenate dehydrogenase, prephenate (nicotinamide adenine dinucleotide phosphate), dehydrogenase, and prephenate dehydrogenase (NADP). This enzyme participates in phenylalanine, tyrosine and tryptophan biosynthesis.

#### Synonyms

prephenate dehydrogenase; prephenate (nicotinamide adenine dinucleotide phosphate) dehydrogenase; prephenate dehydrogenase (NADP)

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.3.1.13

#### CAS No.

37251-11-9

#### Reaction

prephenate + NADP<sup>+</sup> = 4-hydroxyphenylpyruvate + CO<sub>2</sub> + NADPH

#### 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.