

## 4-nitrophenol 4-monooxygenase

Cat. No. EXWM-0766

Lot. No. (See product label)

### Introduction

#### Description

Contains FAD. The enzyme catalyses the first step in a degradation pathway for 4-nitrophenol, the oxidation of 4-nitrophenol at position 4 with the concomitant removal of the nitro group as nitrite. The enzyme from the bacterium *Pseudomonas* sp. strain WBC-3 also catalyses EC 1.14.13.166, 4-nitrocatechol 4-monooxygenase.

#### Synonyms

pnpA (gene name); pdcA (gene name)

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.14.13.167

#### Reaction

4-nitrophenol + NADPH + H<sup>+</sup> + O<sub>2</sub> = 1,4-benzoquinone + nitrite + NADP<sup>+</sup> + H<sub>2</sub>O

#### 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.