Creative Enzymes®

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+ + O2 = 1,4-benzoquinone + nitrite + NADP+ + H2O
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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.