

## 2,4-dinitrotoluene dioxygenase

Cat. No. EXWM-0691

Lot. No. (See product label)

## Introduction

**Description** This enzyme, characterized from the bacterium Burkholderia sp. strain DNT, is a

member of the naphthalene family of bacterial Rieske non-heme iron

dioxygenases. It comprises a multicomponent system, containing a Rieske [2Fe-2S] ferredoxin, an NADH-dependent flavoprotein reductase (EC 1.18.1.3, ferredoxin-NAD+ reductase), and an  $\alpha3\beta3$  oxygenase. The enzyme forms a cis-dihydroxylated product that spontaneously rearranges to form a catechol with accompanying release of nitrite. It does not act on nitrobenzene. cf. EC 1.14.12.23, nitroarene

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dioxygenase.

**Synonyms** dntA (gene name)

## **Product Information**

**Form** Liquid or lyophilized powder

**EC Number** EC 1.14.12.24

**Reaction** 2,4-dinitrotoluene + NADH + O2 = 4-methyl-5-nitrocatechol + nitrite + NAD+

**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

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.

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