

2,4-dinitrotoluene dioxygenase

Cat. No. EXWM-0691

Lot. No. (See product label)

Introduction

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

> 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 α3β3 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 dioxygenase.

Synonyms dntA (gene name)

Product Information

Liquid or lyophilized powder **Form**

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. Storage

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