

## nitric-oxide synthase [NAD(P)H]

Cat. No. EXWM-0764

Lot. No. (See product label)

## Introduction

Description Binds heme (iron protoporphyrin IX) and tetrahydrobiopterin. Most of the bacterial and archaeal enzymes

consist of only an oxidase domain and function together with bacterial ferredoxins. The enzyme from the  $\Delta$ -proteobacterium Sorangium cellulosum also includes a reductase domain that binds FAD, FMN and a [2Fe-2S] cluster. The similar enzymes from plants and animals use only NADPH as acceptor (cf. EC

1.14.13.39).

**Synonyms** nitric oxide synthetase; NO synthase

## **Product Information**

Form Liquid or lyophilized powder

**EC Number** EC 1.14.13.165

**Reaction** 2 L-arginine + 3 NAD(P)H + 3 H+ + 4 O2 = 2 L-citrulline + 2 nitric oxide + 3 NAD(P)+ + 4 H2O (overall

reaction); (1a) 2 L-arginine + 2 NAD(P)H + 2 H+ + 2 O2 = 2 N $\omega$ -hydroxy-L-arginine + 2 NAD(P)+ + 2 H2O; (1b) 2 N $\omega$ -hydroxy-L-arginine + NAD(P)H + H+ + 2 O2 = 2 L-citrulline + 2 nitric oxide + NAD(P)+ + 2 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

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

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