

nitrite reductase (NADH)

Cat. No. EXWM-1608

Lot. No. (See product label)

Introduction

Description

An iron-sulfur flavoprotein (FAD) containing siroheme. This prokaryotic enzyme is specific for NADH. In addition to catalysing the 6-electron reduction of nitrite to ammonia, the enzyme from *Escherichia coli* can also catalyse the 2-electron reduction of hydroxylamine to ammonia. cf. EC 1.7.1.4, nitrite reductase [NAD(P)H].

Synonyms

nitrite reductase (reduced nicotinamide adenine dinucleotide); NADH-nitrite oxidoreductase; assimilatory nitrite reductase (ambiguous); nirB (gene name); nirD (gene name)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.7.1.15

CAS No.

9029-29-2

Reaction

$\text{NH}_3 + 3 \text{NAD}^+ + 2 \text{H}_2\text{O} = \text{nitrite} + 3 \text{NADH} + 5 \text{H}^+$

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.