Creative Enzymes®

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	NH3 + 3 NAD+ + 2 H2O = nitrite + 3 NADH + 5 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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.