

formate dehydrogenase-N

Cat. No. EXWM-0434

Lot. No. (See product label)

Introduction

Description

The enzyme contains molybdopterin-guanine dinucleotides, five [4Fe-4S] clusters and two heme b groups. Formate dehydrogenase-N oxidizes formate in the periplasm, transferring electrons via the menaquinone pool in the cytoplasmic membrane to a dissimilatory nitrate reductase (EC 1.7.5.1), which transfers electrons to nitrate in the cytoplasm. The system generates proton motive force under anaerobic conditions.

Synonyms

Fdh-N; FdnGHI; nitrate-inducible formate dehydrogenase; formate dehydrogenase N; FDH-N; nitrate inducible Fdn; nitrate inducible formate dehydrogenase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.1.5.6

Reaction

formate + a quinone = CO₂ + a quinol

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.