Creative Enzymes®

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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.