

ferredoxin-NAD⁺ oxidoreductase (Na⁺-transporting)

Cat. No. EXWM-1113

Lot. No. (See product label)

Introduction

Description

This iron-sulfur and flavin-containing electron transport complex, isolated from the bacterium *Acetobacterium woodii*, couples the energy from reduction of NAD⁺ by ferredoxin to pumping sodium ions out of the cell, generating a gradient across the cytoplasmic membrane.

Synonyms

Rnf complex (ambiguous); Na⁺-translocating ferredoxin:NAD⁺ oxidoreductase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 7.2.1.2 (Formerly EC 1.18.1.8)

Reaction

2 reduced ferredoxin [iron-sulfur] cluster + NAD⁺ + H⁺ + Na⁺[side 1] = 2 oxidized ferredoxin [iron-sulfur] cluster + NADH + Na⁺[side 2]

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.