

## rubredoxin-NAD<sup>+</sup> reductase

Cat. No. EXWM-1106

Lot. No. (See product label)

### Introduction

#### Description

Requires FAD. The enzyme from *Clostridium acetobutylicum* reduces rubredoxin, ferricyanide and dichlorophenolindophenol, but not ferredoxin or flavodoxin. The reaction does not occur when NADPH is substituted for NADH. Contains iron at the redox centre.

#### Synonyms

rubredoxin reductase; rubredoxin-nicotinamide adenine dinucleotide reductase; dihydronicotinamide adenine dinucleotide-rubredoxin reductase; reduced nicotinamide adenine dinucleotide-rubredoxin reductase; NADH-rubredoxin reductase; rubredoxin-NAD reductase; NADH: rubredoxin oxidoreductase; DPNH-rubredoxin reductase; NADH-rubredoxin oxidoreductase

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.18.1.1

#### CAS No.

9032-27-3

#### Reaction

$2 \text{ reduced rubredoxin} + \text{NAD}^+ + \text{H}^+ = 2 \text{ oxidized rubredoxin} + \text{NADH}$

#### 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.