

lactate dehydrogenase (NAD⁺,ferredoxin)

Cat. No. EXWM-1283

Lot. No. (See product label)

Introduction

Description

The enzyme, isolated from the bacterium *Acetobacterium woodii*, uses flavin-based electron confurcation to drive endergonic lactate oxidation with NAD⁺ as oxidant at the expense of simultaneous exergonic electron flow from reduced ferredoxin to NAD⁺.

Synonyms

electron bifurcating LDH/Etf complex

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.3.1.110

Reaction

lactate + 2 NAD⁺ + 2 reduced ferredoxin [iron-sulfur] cluster = pyruvate + 2 NADH + 2 oxidized ferredoxin [iron-sulfur] cluster

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.