

dihydropyrimidine dehydrogenase (NAD+)

Cat. No. EXWM-1270

Lot. No. (See product label)

Introduction

Description

An iron-sulfur flavoenzyme. The enzyme was originally discovered in the uracil-fermenting bacterium, *Clostridium uracilicum*, which utilizes uracil and thymine as nitrogen and carbon sources for growth. Since then the enzyme was found in additional organisms including *Alcaligenes eutrophus*, *Pseudomonas* strains and *Escherichia coli*.

Synonyms

dihydropyrimidine dehydrogenase; dihydrothymine dehydrogenase; pyrimidine reductase; thymine reductase; uracil reductase; dihydrouracil dehydrogenase (NAD+)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.3.1.1

CAS No.

9026-89-5

Reaction

(1) 5,6-dihydrouracil + NAD⁺ = uracil + NADH + H⁺; (2) 5,6-dihydrothymine + NAD⁺ = thymine + NADH + H⁺

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.