Creative Enzymes®

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