

## dihydroorotate dehydrogenase (NAD+)

Cat. No. EXWM-1288

Lot. No. (See product label)

## Introduction

**Description** Binds FMN, FAD and a [2Fe-2S] cluster. The enzyme consists of two subunits, an

FMN binding catalytic subunit and a FAD and iron-sulfur binding electron transfer subunit. The reaction, which takes place in the cytosol, is the only redox reaction in the de-novo biosynthesis of pyrimidine nucleotides. Other class 1 dihydroorotate dehydrogenases use either fumarate (EC 1.3.98.1) or NADP+ (EC 1.3.1.15) as electron acceptor. The membrane bound class 2 dihydroorotate dehydrogenase (EC

1.3.5.2) uses quinone as electron acceptor.

**Synonyms** orotate reductase (NADH); orotate reductase (NADH2); DHOdehase (ambiguous);

DHOD (ambiguous); DHODase (ambiguous); dihydroorotate oxidase, pyrD (gene

name)

## **Product Information**

**Form** Liquid or lyophilized powder

**EC Number** EC 1.3.1.14

*CAS No.* 37255-26-8

**Reaction** (S)-dihydroorotate + NAD+ = orotate + 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

Store it at +4 °C for short term. For long term storage, store it at -20 °C∼-80 °C.

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