

## D-2-hydroxyacid dehydrogenase (NAD+)

Cat. No. EXWM-0260

Lot. No. (See product label)

## Introduction

**Description** The enzymes, characterized from bacteria (Peptoclostridium difficile, Enterococcus

faecalis and from lactic acid bacteria) prefer substrates with a main chain of 5 carbons (such as 4-methyl-2-oxopentanoate) to those with a shorter chain. It also utilizes phenylpyruvate. The enzyme from the halophilic archaeon Haloferax mediterranei prefers substrates with a main chain of 3-4 carbons (pyruvate and 2-oxobutanoate). cf. EC 1.1.1.272, (D)-2-hydroxyacid dehydrogenase (NADP+).

**Synonyms** LdhA; HdhD; D-2-hydroxyisocaproate dehydrogenase; R-HicDH; D-HicDH; (R)-2-

hydroxy-4-methylpentanoate:NAD+ oxidoreductase; (R)-2-hydroxyisocaproate

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dehydrogenase; D-mandelate dehydrogenase (ambiguous)

## **Product Information**

**Form** Liquid or lyophilized powder

**EC Number** EC 1.1.1.345

**Reaction** an (R)-2-hydroxycarboxylate + NAD+ = a 2-oxocarboxylate + 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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