Creative Enzymes®

D-2-hydroxyacid dehydrogenase (NADP+)

Cat. No. EXWM-0179

Lot. No. (See product label)

Introduction

Description	This enzyme, characterized from the halophilic archaeon Haloferax mediterranei and the mold Aspergillus oryzae, catalyses a stereospecific reduction of 2-oxocarboxylic acids into the corresponding D-2-hydroxycarboxylic acids. The enzyme prefers substrates with a main chain of 5 carbons (such as 4-methyl-2-oxopentanoate) to those with a shorter chain, and can use NADH with much lower efficiency. cf. EC 1.1.1.345, (D)-2-hydroxyacid dehydrogenase (NAD+).
Synonyms	ddh (gene name)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.1.1.272
CAS No.	81210-65-3
Reaction	an (R)-2-hydroxycarboxylate + NADP+ = a 2-oxocarboxylate + NADPH + 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 ℃.