

Leucine Dehydrogenase (LeuDH)

Cat. No. LeuDH-27 Lot. No. (See product label)

SPECIFICATION

Product Overview

Description

LeuDH can catalyze the reductive ammoniation of 4-methylbutanoic acid (salt) to L-leucine or the oxidation of leucine to 4-methylbutanoic acid. LeuDH can also catalyze the reductive amination of α -keto acids with similar structure to prepare corresponding amino acid derivatives. In the process of catalysis, NADH is necessary as hydrogen transporter.

Instructions and Precautions

The following reaction system could be used for reference: 1-10 mg/mL Substrate, 10 mg/mL Enzyme, 10% (v/v) Organic cosolvent, 100 mM Phosphate buffer (pH 7.0), 0.2 mg/mL NAD⁺, 100 mM Ammonium formate, 10 mg/mL Formate dehydrogenase (FDH). Incubate the reactions at a constant temperature shaker (for example, 30 centigrade, 150 rpm) in for 24~48 hours. Centrifuge each mixture to precipitate protein, then the supernatant can be used for TLC, HPLC or GC analysis. Note: Organic solvent (such as DMSO, methanol, acetonitrile, IPA, etc.) is optional, used for insoluble substrates.

GENE INFORMATION

Official Symbol LeuDH

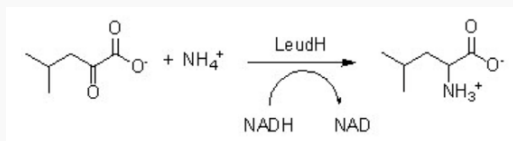
Synonyms Leucine Dehydrogenase; LeuDH

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Leucine
dehydrogenase catalytic
reaction type



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