

isocitrate dehydrogenase (NAD⁺)

Cat. No. EXWM-0326

Lot. No. (See product label)

Introduction

Description Requires Mn²⁺ or Mg²⁺ for activity. Unlike EC 1.1.1.42, isocitrate dehydrogenase (NADP⁺), oxalosuccinate cannot be used as a substrate. In eukaryotes, isocitrate dehydrogenase exists in two forms: an NAD⁺-linked enzyme found only in mitochondria and displaying allosteric properties, and a non-allosteric, NADP⁺-linked enzyme that is found in both mitochondria and cytoplasm. The enzyme from some species can also use NADP⁺ but much more slowly.

Synonyms isocitric dehydrogenase; β -ketoglutaric-isocitric carboxylase; isocitric acid dehydrogenase; NAD dependent isocitrate dehydrogenase; NAD isocitrate dehydrogenase; NAD-linked isocitrate dehydrogenase; NAD-specific isocitrate dehydrogenase; NAD isocitric dehydrogenase; isocitrate dehydrogenase (NAD); IDH (ambiguous); nicotinamide adenine dinucleotide isocitrate dehydrogenase

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.1.1.41

CAS No. 9001-58-5

Reaction isocitrate + NAD⁺ = 2-oxoglutarate + CO₂ + NADH

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