Creative Enzymes®

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