

β-Nicotinamide-Adenine Dinucleotide, Reduced Form (β-NADH)

Cat. No. NATE-0786

Lot. No. (See product label)

Introduction

Description NADH is a coenzyme that functions as a regenerating electron donor in catabolic processes including

glycolysis, beta-oxidation and the citric acid cycle (Krebs cycle, TCA cycle). It participates in cell signaling events as well, for example as a substrate for the poly (ADP-ribose) polymerases (PARPs) during the DNA damage response. The NAD+/NADH dependent sirtuins play key roles in stress responses during events involving energy metabolism, with implications in cancer biology, diabetes and neurodegenerative

disease.

Synonyms aldehyde reductase; ADH; alcohol dehydrogenase (NAD); aliphatic alcohol dehydrogenase; ethanol

dehydrogenase; NAD-dependent alcohol dehydrogenase; NAD-specific aromatic alcohol dehydrogenase; NADH-alcohol dehydrogenase; NADH-aldehyde dehydrogenase; primary alcohol dehydrogenase; yeast

alcohol dehydrogenase; EC 1.1.1.1; β-NADH

Product Information

EC Number EC 1.1.1.1

CAS No. 606-68-8

Molecular 709.41

Weight

Purity Dertermined by decrease in absorbance at 340 nm on enzymatic oxidation with ADH* at pH 10.0 > 95%

*ADH = Alcohol dehydrogenase (yeast) (EC 1.1.1.1.)

Structure C21H27N7O14P2Na2

Specificity Water content: < 8% by Karl Fischer; Sodium content: $6.5 \pm 1.5\%$ by flame photometyl

Storage and Shipping Information

Storage Keep tightly stoppered in the dark below 5°C. Moisture will reduce the purity. For prolonged storage, keep

below-20°C. Unstable in acids, but relatively stable at pH 10-11.

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