

## 3-Acetylpyridine-Adenine Dinucleotide, Oxidized (APAD)

Cat. No. NATE-0077

Lot. No. (See product label)

## Introduction

**Description** 3-Acetylpyridine adenine dinucleotide is an NAD analog with higher oxidation potential than NAD. It can

substitute for NAD as a hydrogen-accepting cofactor in many dehydrogenase reactions. For example

lactate dehydrogenase from Toxoplasma, Clonorchis, and Plasmodium, bacterial lipoamide

dehydrogenase, as well as mammalian dehydrogenases. This compound can also act as a proton acceptor

in various transhydrogenation reactions with NADH or NADPH.

**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; APAD

## **Product Information**

**EC Number** EC 1.1.1.1

*CAS No.* 86-08-8

Molecular

662.44

Weight

**Purity** Determined by increase in absorbance at 363 nm on enzymatic reduction with ADH\* at pH 10.0 > 92%

\*ADH = Alcohol dehydrogenase (Horse liver) (EC 1.1.1.1.)

Structure C22H28N6O14P2

**Specificity** Water content: < 8% by Karl Fischer

## 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.

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