CREATIVE BIOMART®
Assay Kit

NADH Assay Kit (Red)

Product Information

Cat.No. Kit-0615

Product Overview

NADH Assay Kit provides a sensitive, one-step assay to detect as little as 100 pico-moles of NADH in a 100 ul assay volume (1 uM).

Description

Nicotinamide adenine dinucleotide (NAD+) and nicotinamide adenine dinucleotide phosphate (NADP+) are two important cofactors found in cells. NADH is the reduced form of NAD+, the oxidized form of NADH. NAD forms NADP with the addition of a phosphate group to the 2" position of the adenyl nucleotide through an ester linkage.The traditional NAD/NADH and NADP/NADPH assays are done by monitoring the changes in NADH or NADPH absorption at 340 nm. The short UV wavelength of the traditional NAD/NADH and NADP/NADPH assays makes these methods to suffer low sensitivity and high interference. Due to the weak absorption of NAD and NADH, the UV absorption method requires large sample sizes, making the same NAD and NADH measurement unpractical if the availability of samples is limited.

Usage

For research use only (RUO)

Storage

Store Component A and C at -20 °C, Component B and G at 4 °C.

Kit Components

Component A : NADH Recycling Enzyme Mixture (lyophilized powder) 2 bottlesComponent B: NADH Assay Buffer 20 mLComponent C : NADH Standard 142 μgComponent G: NAD/NADH Lysis Buffer 10 mL

Detection method 540/590 nm

Compatible Sample Types

Cell Lysate, Tissue Lysate

Tel: 1-631-559-9269 1-516-512-3133
Email:info@creative-biomart.org
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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Features & Benefits

Broad application NADH detection in solution or cell extracts.Sensitive Detect as low as 10 nanomoles of NADH in solution.Continuous Easily adapted to automation without a separation step.Convenient Formulated to have minimal hands-on time. No wash required.Non-radioactive No special requirement for waste disposal.

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