CREATIVE BIOMART®
Assay Kit

NAD/NADH Assay Kit

Product Information

Cat.No. Kit-0613

Product Overview

Detection and Quantification of NAD/NADH Content.

Description

Nicotinamide adenine dinucleotide (NAD+) is a vital coenzyme found in all cells. As NAD+ is involved in redox reactions, it is found in two forms in cells. NAD+ is an oxidizing agent and becomes reduced to form NADH, which can be used as a reducing agent. As a result, it plays a key role in metabolism and other cellular processes. In organisms, NAD+ can be synthesized de novo from tryptophan or aspartic acid. Because of the wide variety of functions that NAD+ plays, it is a popular target for pharmaceuticals. NAD/NADH Assay Kit is based on a glucose dehydrogenase cycling reaction, in which the formed NADH reduces a formazan (MTT) reagent. The intensity of the reduced product color, measured at 570 nm, is proportionate to the NAD+/NADH concentration in the sample.

Applications

Functional Assay

Storage

Shipped and store at 4°C for 6 months.

Kit Components

Component-Volume-Storage1. 96-Well Microplate;2. Extract I: 30 ml x 1, 4°C; 3. Extract II: 30 ml x 1, 4°C; 4. Reagent I: 10 ml x 1, 4°C; 5. Reagent II: 1.5 ml x 2, 4°C; 6. Reagent III: Powder x 1, -20°C; 7. Reagent IV: Powder x 1, 4°C; 8. Reagent V: 1.2 ml x 3, 4°C; 9. Reagent VI: 30 ml x 1, 4°C; 10. Reagent VII: 25 ml x 2, 4°C; 11. Technical Manual: 1 ManualNote: Reagent III: add 3 ml distilled water to dissolve before use, mix, stored at 4°C. Reagent IV: add 3 ml distilled water to dissolve before use, mix, stored at 4°C.

Detection method Colorimetric

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Compatible Sample Types

Urine; Serum; Plasma; Other biological fluids; Tissue Extracts; Cell Lysate

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