CREATIVE BIOMART®
Assay Kit

Coenzyme I NAD(H) Content Assay Kit

Product Information

Product Overview

Significance: NAD⁺ and NADH are essential coenzymes in glycolysis and the TCA cycle, mediating redox reactions that generate ATP and ROS. The NADH/NAD⁺ ratio reflects cellular respiratory activity and metabolic state. NAD⁺ degradation products also regulate signaling, metabolism, and gene expression.
Principle: NAD⁺ and NADH are extracted separately with acidic and basic solutions. NADH reduces oxidized MTT via PMS to form formazan, measured at 570 nm. NAD⁺ is first enzymatically reduced to NADH, followed by MTT reduction detection.

Size

50t/48s

Storage

Store at -20 °C. Shelf life: 6 months.

Detection method Spectrophotometer

Materials Required but Not Supplied

Visible spectrophotometer, bench-top centrifuge, micropipettes, 1 mL glass cuvettes, mortar and pestle, ice, distilled water.

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