

NADH Oxidase (NOX) Assay Kit | NOX assay kit

NADH Oxidase (NOX) Colorimetric Assay Kit

CATALOG #
AAA332479

PRODUCT SYNONYMS

NADH Oxidase (NOX); NADH Oxidase (NOX) Colorimetric Assay Kit; NOX assay kit

PRODUCT SPECIFICATIONS

Samples	Animal and Plant Tissues, Cells, Bacteria
Features & Benefits	Determination of NADH oxidase (NOX) activity in tissue/cell lysates and other biological fluids. Kit components and procedures are simple. Sample preparation, experimental steps and result calculation are more detailed and accurate. Long shelf life.
Usage Notes	Assay kit is intended for research use only. Not for use in test procedures. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices. Do not mix or substitute kit reagents or materials from other lots or vendors. Kits are QC tested as a set of components and performance cannot be guaranteed if utilized separately or substituted. Avoid foaming or bubbles when mixing or reconstituting components. Avoid cross-contamination, change pipette tips between additions of standards, samples and reagents. Also, use separate reservoirs for each reagent. Ensure all reagents and equipment are at the appropriate temperature before assay. The sample preparation must be done at 0 degree C-4 degree C to prevent the enzyme inactivation. During the experiment, Substrate and samples should be placed on ice to avoid enzyme inactivation. The reaction temperature should be constant, the experiment needs to be conducted in a thermostat. It is better for two people to do this experiment at the same time, one to measure results and one to record time to ensure the accuracy of the experimental results. Since the enzyme activity is calculated based on the reaction rate, when using a 96-well plate, please control the number of samples to be measured at one time according to the operating speed. It is recommended to calculate the enzyme activity by sample protein concentration. If the sample fresh weight is used, it needs to detect the cytoplasmic extract enzyme activity as well. The sum of the supernatant and precipitation enzyme activity is the total enzyme activity.
Preparation and Storage	Storage at -20 degree C and Keep from light immediately upon receipt. Kit has a storage time of 12 months from receipt. Refer to list of materials supplied for storage conditions of individual components. Shipping: Gel pack with blue ice.

ADDITIONAL INFORMATION

Related Product Information for NOX assay kit	Principle of the Assay: NADH Oxidase (NOX, EC 1.6.99.3) is widely found in animals, plants, microorganisms and cultured cells, and can directly oxidize NADH to NAD in the presence of oxygen. This enzyme is not only involved in the regeneration of NAD, but also closely related to the immune response. CheKine™ Micro NADH Oxidase (NOX) Activity Assay Kit provides a simple method for detecting NOX activity in a variety of biological samples such as animal and plant tissues, cells and bacteria. In the assay, NOX can oxidize NADH to NAD, the oxidation of NADH is coupled with the reduction of 2,6 dichlorophenol indigo (DCPIP), the blue DCPIP is reduced to colorless DCPIP, and the reduction rate of blue DCPIP is measured at 600 nm which can reflect NADH oxidase activity.
Product Categories/Family for NOX assay kit	Cell Metabolism

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

