

Superoxide Anion Scavenging Capacity Assay Kit

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CATALOG #
AAA31526

PRODUCT SYNONYMS

Superoxide Anion Scavenging Capacity; Superoxide Anion Scavenging Capacity Assay Kit; Superoxide Anion Scavenging Capacity assay kit

PRODUCT SPECIFICATIONS

Samples	Animal and Plant Tissues, Cells, Blood, Drug
Application Notes	Superoxide anion Scavenging Assay Kit provides a simple and easy colorimetric assay for the study of Superoxide anion Scavenging ability in tissue/cell lysates and other biological fluids. In this assay, superoxide anion (O ₂ ⁻) is provided by xanthine oxidase (XO) catalyzed reaction. O ₂ ⁻ reacts with a tetrazolium salt WST-8 dye to form a water-soluble colored formazan product, which can be easily quantified colorimetrically. Sample scavenges the O ₂ ⁻ thus less O ₂ ⁻ is available for the chromogenic reaction. This scavenging ability of sample is measured by colorimetric method at OD 450 nm.
Preparation and Storage	Store at -20 degree C and keep from light immediately upon receipt. Kit has a storage time of 6 months from receipt. Refer to list of materials supplied for storage conditions of individual components.

ADDITIONAL INFORMATION

Related Product Information for Superoxide Anion Scavenging Capacity assay kit	Principle of the Assay: The superoxide anion (O ₂ ⁻) is a short-lived radical production by the addition of an electron to oxygen. It is formed in response to environmental factors such as UV light, cigarette smoke, environmental pollutants, and -radiation, or derived from oxidases like xanthine oxidase or NADPH oxidase. Once formed, O ₂ ⁻ attacks cellular components and causes damage to lipids, proteins and DNA. This can initiate numerous diseases, including cancer, atherosclerosis, rheumatoid arthritis, diabetes, liver damage, and central nervous system disorders. The study of scavenging superoxide anion radicals has been gained more and more attention. CheKine™ Micro Superoxide Anion Scavenging Capacity Assay Kit provides a simple and easy colorimetric assay for the study of Superoxide anion Scavenging ability in animal and plant tissues, cell and other biological fluids. In this assay, superoxide anion (O ₂ ⁻) is provided by xanthine oxidase (XO) catalyzed reaction. O ₂ ⁻ reacts with a tetrazolium salt WST-8 dye to form a water-soluble colored formazan product, which can be easily quantified. Sample scavenges the O ₂ ⁻ thus less O ₂ ⁻ is available for the chromogenic reaction. This scavenging ability of sample is measured by colorimetric method at OD 450 nm.
Product Categories/Family for Superoxide Anion Scavenging Capacity 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.

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Online datasheet: <https://www.aaabiotech.com/assay-kits/superoxide-anion-scavenging-capacity/31526>