

Superoxide Dismutases (SOD) Assay Kit | SOD assay kit

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CATALOG #
AAA31523

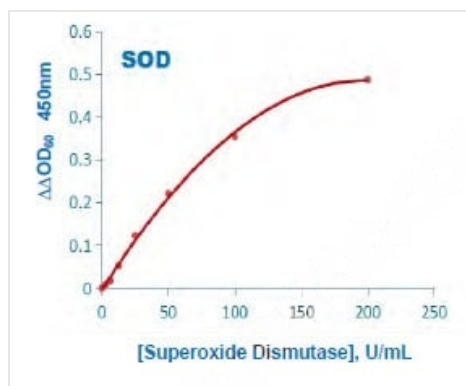
PRODUCT SYNONYMS

Superoxide Dismutases (SOD); Superoxide Dismutases (SOD) Assay Kit; SOD assay kit

PRODUCT SPECIFICATIONS

Sequence Length	142
Samples	Serum, Plasma, Animal and Plant Tissues, Cells
Application Notes	Superoxide dismutase (SOD) Activity Assay Kit provides a simple and easy colorimetric assay for the quantitative determination of SOD enzyme activity in serum, plasma, tissue/cell lysates and other biological fluids. In the 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. SOD scavenges the O_2^- thus less O_2^- is available for the chromogenic reaction. This inhibition activity of SOD 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.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for SOD assay kit

Principle of the Assay: Superoxide dismutases (SOD, EC1.15.1.1) are enzymes that catalyze the dismutation of superoxide anion into O_2 and H_2O_2 . They are an important antioxidant defense against the toxicity of superoxide radical in all cells exposed to O_2 . Aberrant SOD activities have been linked to diseases such as amyotrophic lateral sclerosis, perinatal lethality, neural disorders and cancer. There are three major families of superoxide dismutase: Cu/Zn, Fe/Mn, and the Ni type. Three forms of superoxide dismutase are present in humans. SOD1 is located in the cytoplasm, SOD2 in the mitochondria, and SOD3 is extracellular. CheKine™ Micro Superoxide Dismutases (SOD) Activity Assay Kit provides a simple and easy assay for the quantitative determination of SOD enzyme activity in serum, plasma, animal and plant tissues, cells lysates and other biological fluids. In the 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. SOD scavenges the O_2^- thus less O_2^- is available for the chromogenic reaction. This inhibition activity of SOD is measured by colorimetric method at OD 450 nm. The activity of SOD was negatively correlated with the amount of formazan.

Product Categories/Family for SOD
assay kit

Cell Metabolism

NCBI AND UNIPROT INFORMATION

NCBI GI #

77417715

NCBI Official Full Name

SOD, partial

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-dismutases-sod/31523>