

Superoxide Dismutase Assay Kit

Product Information

Cat

Kit-2455

Cat.No.

Kit-2455

Product Overview

Superoxide dismutases (SOD, EC1.15.1.1) are enzymes that catalyze the dismutation of superoxide into O₂ and H₂O₂. They are an important antioxidant defense in all cells exposed to O₂. There are three major families of superoxide dismutase: Cu/Zn, Fe/Mn, and the Ni type. Aberrant SOD activities have been linked to diseases such as amyotrophic lateral sclerosis, perinatal lethality, neural disorders and cancer. SOD assay provides a convenient colorimetric means for the quantitative determination of SOD enzyme activity in biological samples. In the assay, superoxide (O₂⁻) is provided by xanthine oxidase (XO) catalyzed reaction. O₂⁻ reacts with a WST-1 dye to form a colored product. SOD scavenges the O₂⁻ thus less O₂⁻ is available for the chromogenic reaction. The color intensity (OD440nm) is used to determine the SOD activity in a sample.

Storage

-20°C

Shipping

On Ice

Size

100 tests

Detection method OD440nm

Compatible Sample Types

Blood, cell, tissue etc

Features & Benefits

Tel: 1-631-559-9269 1-516-512-3133

Fax:1-631-938-8127

Email:info@creative-biomart.org

45-1 Ramsey Road, Shirley, NY 11967, USA



Superoxide Dismutase Assay Kit

Sensitive and accurate. Linear detection range of 0.05 - 3 U/mL SOD.

Convenient and high-throughput. Homogeneous "mix-incubate-measure" type assay. No wash and reagent transfer steps are involved. Can be readily automated on HTS liquid handling systems for processing thousands of samples per day.

Assay time

1 hr

Sensitivity

0.05 U/mL

Tel: 1-631-559-9269 1-516-512-3133

Fax: 1-631-938-8127

Email: info@creative-biomart.org

45-1 Ramsey Road, Shirley, NY 11967, USA