

# Method) Superoxide Dismutase (T-SOD) Activity Assay Kit (WST-1)

Cat No: HR3BC1114

For research use only

## Overview

Detection Method	Colorimetric method
Storage	Reagent 3: -20?, others: 2-8?
Instrument	Microplate reader(440-460 nm, optimum wavelength: 450 nm)
Assay Time	30 min
Validity	12
Assay Type	Enzyme Activity
Sample Type	Serum, plasma, hydrothorax, ascites, urine, cells, tissue
Synonyms	T-SOD
Instrument	Microplate reader(440-460 nm, optimum wavelength: 450 nm)
Detection Principle	The activity of SOD was measured by WST-1 method in this kit and the principles of the WST-1 is as follows. Xanthine Oxidase (XO) can catalyze WST-1 react with O <sub>2</sub> ·- to generate a water-soluble formazan dye. SOD can catalyze the disproportionation of superoxide anions, so the reaction can be inhibited by SOD, and the activity of SOD is negatively correlated with the amount of formazan dye. Therefore, the activity of SOD can be determined by the colorimetric analysis of WST-1 products.
Reagents	Normal saline (0.9% NaCl) or PBS (0.01 M, pH 7.4)
Labware	Micropipettor, Multichannel pipettor, Vortex mixer, Incubator
Size	96T
Sensitivity	0.2 U/mL
Detection Range	0.2 -14.4 U/mL
Recovery Rate	97