

Bovine Superoxide Dismutase 1 (SOD1) ELISA Kit | SOD1 elisa kit

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CATALOG #
AAA151275

REACTIVITY
Bovine

PRODUCT SYNONYMS

Superoxide Dismutase 1 (SOD1); Bovine Superoxide Dismutase 1 (SOD1) ELISA Kit; SOD1/Superoxide Dismutase 1; ALS; ALS1; IPOA; Superoxide Dismutase 1; Soluble; Amyotrophic Lateral Sclerosis 1; Adult; Superoxide dismutase [Cu-Zn]; SOD1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Bovine
Specificity	This assay has high sensitivity and excellent specificity for detection of SOD1. No significant cross-reactivity or interference between SOD1 and analogues was observed.
Assay Type	Quantitative Sandwich
Samples	Bovine serum, plasma, tissue homogenates and other biological fluids
Detection Range	1.56-100ng/mL
Sensitivity	< 0.57ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level SOD1 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level SOD1 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term(within shelf life) Shelf Life: 8 months The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

ADDITIONAL INFORMATION

Related Product Information for SOD1 elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to SOD1. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to SOD1. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain SOD1, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of SOD1 in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of SOD1 in bovine serum, plasma, tissue homogenates and other biological fluids.
Product Categories/Family for SOD1 elisa kit	Enzyme & Kinase; Metabolic pathway; Endocrinology; Hepatology; Nutrition metabolism

NCBI AND UNIPROT INFORMATION

NCBI GI #	27807109
NCBI GeneID	281495
NCBI Accession #	NP_777040.1
NCBI GenBank Nucleotide #	NM_174615.2
UniProt Accession #	P00442; Q3ZCF4
Molecular Weight	15,683 Da
NCBI Official Full Name	superoxide dismutase
NCBI Official Synonym Full Names	superoxide dismutase 1, soluble
NCBI Official Symbol	SOD1
NCBI Official Synonym Symbols	SOD1L1
NCBI Protein Information	superoxide dismutase [Cu-Zn]; superoxide dismutase [Cu-Zn]; Cu-Zn superoxide dismutase
UniProt Protein Name	Superoxide dismutase [Cu-Zn]
UniProt Gene Name	SOD1
UniProt Entry Name	SODC_BOVIN

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/bovine-ovine-elisa-kits/superoxide-dismutase-1-sod1/151275>