

Human Sulfite Oxidase, Mitochondrial (SUOX) ELISA Kit | SUOX elisa kit

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CATALOG #
AAA330621

REACTIVITY
Human

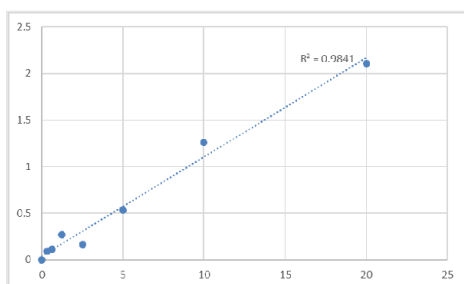
PRODUCT SYNONYMS

Sulfite Oxidase; Mitochondrial (SUOX); Human Sulfite Oxidase; Mitochondrial (SUOX) ELISA Kit; SUOX elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Sulfite oxidase, mitochondrial (SUOX) ELISA Kit has high sensitivity and excellent specificity for detection of Human SUOX. No significant cross-reactivity or interference between Human SUOX and analogues was observed.
Sequence Length	545
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Sulfite oxidase, mitochondrial (SUOX) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for SUOX elisa kit	Description: This Human Sulfite oxidase, mitochondrial (SUOX) ELISA Kit employs a two-site sandwich ELISA to quantitate SUOX in samples. An antibody specific for SUOX has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SUOX present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SUOX is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of SUOX bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Sulfite oxidase (EC 1.8.3.1) is an enzyme in the mitochondria of all eukaryotes. It oxidizes sulfite to sulfate and, via cytochrome c, transfers the electrons produced to the electron transport chain, allowing generation of ATP in oxidative phosphorylation. This is the last step in the metabolism of sulfur-containing compounds and the sulfate is excreted. Sulfite oxidase is a metallo-enzyme that utilizes a molybdopterin cofactor and a heme group. It is one of the cytochromes b5 and belongs to the enzyme super-family of oxotransferases that also includes DMSO reductase, xanthine oxidase, and nitrite reductase. In mammals, the expression levels of sulfite oxidase is high in the liver, kidney, and heart, and very low in spleen, brain, skeletal muscle, and blood.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	152031695
NCBI GeneID	6821
UniProt Accession #	P51687
NCBI Official Full Name	Sulfite oxidase, mitochondrial
NCBI Official Synonym Full Names	sulfite oxidase
NCBI Official Symbol	SUOX
NCBI Protein Information	sulfite oxidase, mitochondrial
UniProt Protein Name	Sulfite oxidase, mitochondrial
UniProt Gene Name	SUOX
UniProt Entry Name	SUOX_HUMAN

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.