

Human Sucrase-Isomaltase, Intestinal (SI) ELISA Kit | SI elisa kit

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CATALOG #
AAA330875

REACTIVITY
Human

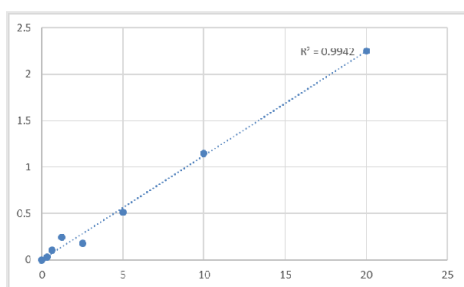
PRODUCT SYNONYMS

Sucrase-Isomaltase; Intestinal (SI); Human Sucrase-Isomaltase; Intestinal (SI) ELISA Kit; SI; MGC131621; MGC131622; Oligosaccharide alpha-1; 6-glucosidase; sucrase-isomaltase; SI elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Sucrase-isomaltase, intestinal (SI) ELISA Kit has high sensitivity and excellent specificity for detection of Human SI. No significant cross-reactivity or interference between Human SI and analogues was observed.
Sequence Length	1827
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 Sucrase-isomaltase, intestinal (SI) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for SI elisa kit	Description: This Human Sucrase-isomaltase, intestinal (SI) ELISA Kit employs a two-site sandwich ELISA to quantitate SI in samples. An antibody specific for SI has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SI present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SI 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 SI bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Congenital sucrase-isomaltase deficiency is an example of a disease in which mutation results in transport-incompetent molecules. sucrase-isomaltase is not transported to the brush border membrane but accumulates as a mannose-rich precursor in the endoplasmic reticulum, ER-Golgi intermediate compartment, and the cis-Golgi, where it is finally degraded. The enzyme consists of 2 subunits which are synthesized as a single chain mannose-rich precursor. From studies of the cDNA, the human protein has 83% identity with the rabbit enzyme. In addition to the previously reported homology with lysosomal alpha-glucosidase, the sucrase and isomaltase subunits appear to be homologous to a yeast glucoamylase.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	157364974
NCBI GeneID	6476
NCBI Accession #	NP_001032.2
NCBI GenBank Nucleotide #	NP_001032.2
UniProt Accession #	P14410
NCBI Official Full Name	sucrase-isomaltase, intestinal
NCBI Official Synonym Full Names	sucrase-isomaltase
NCBI Official Symbol	SI
NCBI Protein Information	sucrase-isomaltase, intestinal
UniProt Protein Name	Sucrase-isomaltase, intestinal
UniProt Gene Name	SI

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/human-elisa-kits/sucrase-isomaltase-intestinal-si/330875>