

Human Collagen Type III Alpha 1 (COL3a1) ELISA Kit | COL3a1 elisa kit

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CATALOG #
AAA65575

REACTIVITY
Human

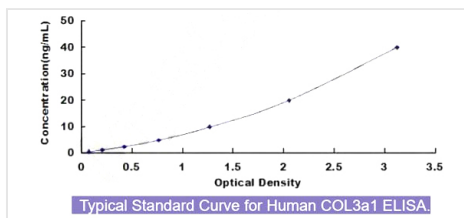
PRODUCT SYNONYMS

Collagen Type III Alpha 1 (COL3a1); Human Collagen Type III Alpha 1 (COL3a1) ELISA Kit; COL3-A1 COL3A1 EDS4A Collagen Type III Alpha 1 Ehlers-Danlos Syndrome Type IV Autosomal Dominant Collagen Alpha-1(III)chain; COL3a1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of COL3a1. No significant cross-reactivity or interference between COL3a1 and analogues was observed.
Sequence Length	1,163
Assay Type	Quantitative Sandwich
Samples	Human serum, plasma, tissue homogenates or other biological fluids
Detection Range	0.625-40ng/mL
Sensitivity	< 0.226ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level COL3a1 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 COL3a1 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for COL3a1 elisa kit	Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to COL3a1. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to COL3a1. 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 COL3a1, 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 COL3a1 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 the in vitro quantitative measurement of COL3a1 in human serum, plasma, tissue homogenates or other biological fluids.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4502951
NCBI GeneID	1281
NCBI Accession #	NP_000081.1
NCBI GenBank Nucleotide #	NM_000090.3
UniProt Accession #	P02461; P78429; Q15112; Q16403; Q53S91; Q541P8; Q6LDB3; Q6LDJ2; Q6LDJ3; Q7KZ56; D2JYH5; D3DPH4
Molecular Weight	111,907 Da
NCBI Official Full Name	collagen alpha-1(III) chain preproprotein
NCBI Official Synonym Full Names	collagen type III alpha 1 chain
NCBI Official Symbol	COL3A1
NCBI Official Synonym Symbols	EDS4A
NCBI Protein Information	collagen alpha-1(III) chain
UniProt Protein Name	Collagen alpha-1(III) chain
UniProt Gene Name	COL3A1

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.