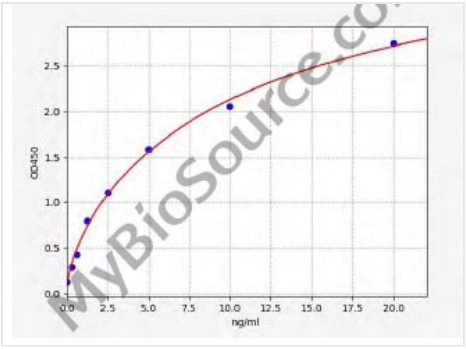
Collagen Type 1 Alpha 1 (COL1A1) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Collagen Type I Alpha 1 (COL1A1), ELISA Kit
Full Product Name	Human Collagen Type I Alpha 1 ELISA Kit
Product Gene Name	COL1A1 elisa kit
Product Synonym Names	COL1alpha1/COL1A1 (Collagen Type I Alpha 1)/Alpha-1 type I collagen/OI4/Collagen 1/collagen alpha 1 chain type I/Collagen1/Collagen-1/OI4/pro-alpha-1 collagen type 1
Species Reactivity	Human
Assay Type	Sandwich
Samples	Serum, plasma, tissue homogenates and other biological fluids
Detection Range	0.313-20ng/ml
Sensitivity	0.188ng/ml
Specificity	This assay has high sensitivity and excellent specificity for detection of COL1A1. No significant cross-reactivity or interference between COL1A1 and analogues was observed.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C
Inter-assay Precision	CV<10%
Intra-assay Precision	CV<8%
Molecular Weight	97,445 Da
3D Structure	ModBase 3D Structure for Q6LAN8
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for COL1A1 elisa kit	Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Capture antibody was pre-coated onto 96-well plates. And the biotin conjugated antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the target amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of target can be calculated.
Other Notes	Small volumes of COL1A1 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for COL1A1 purchase	MBS763786 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Collagen Type I Alpha 1 (COL1A1) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing COL1A1. The ELISA analytical biochemical technique of the MBS763786 kit is based on COL1A1 antibody-COL1A1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect COL1A1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, COL1A1. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of COL1A1 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for COL1A1. It may not necessarily be applicable to this product.

NCBI GI #	1888409
NCBI Accession #	CAA67261.1
UniProt Primary Accession #	Q6LAN8
NCBI Official Full Name	collagen type I alpha 1, partial
UniProt Protein Name	Collagen type I alpha 1
UniProt Synonym Protein Names	Collagen type I alpha 1
Protein Family	Collagen
UniProt Gene Name	COL1A1
UniProt Entry Name	Q6LAN8_HUMAN
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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Online datasheet: https://www.mybiosource.com/col1a1-human-elisa-kits/collagen-type-i-alpha-1/763786