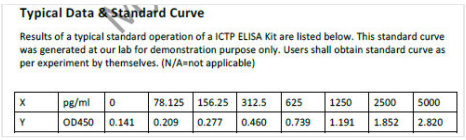
Cross-Linked C-Terminal Telopeptide of Collagen Alpha-1(i) Chain (ICTP) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Cross-linked C-terminal telopeptide of Collagen alpha-1(I) chain (ICTP), ELISA Kit
Full Product Name	Human Cross-linked C-terminal telopeptide of Collagen alpha-1(I) chain ELISA Kit
Product Gene Name	ICTP elisa kit
Product Synonym Names	ICTP/Cross-linked C-terminal telopeptide of Collagen alpha-1 (I) chain
Species Reactivity	Human
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	78.125-5000pg/ml
Sensitivity	46.875pg/ml
Specificity	This assay has high sensitivity and excellent specificity for detection of HYAL2. No significant cross-reactivity or interference between HYAL2 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	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level HYAL2were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level HYAL2were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for ICTP elisa kit	Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-HYAL2antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-HYAL2 antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash 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 HYAL2 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of HYAL2 can be calculated.
Other Notes	Small volumes of ICTP 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 ICTP purchase	MBS764432 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cross-linked C-terminal telopeptide of Collagen alpha-1(I) chain (ICTP) 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 ICTP. The ELISA analytical biochemical technique of the MBS764432 kit is based on ICTP antibody-ICTP antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect ICTP antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, ICTP. 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 Data & Standard Curve

Results of a typical standard operation of a ICTP ELISA Kit are listed below. This standard curve was generated at our lab for demonstration purpose only. Users shall obtain standard curve as per experiment by themselves. (N/A=not applicable)

X	pg/ml	0	78.125	156.25	312.5	625	1250	2500	5000
Y	OD450	0.141	0.209	0.277	0.460	0.739	1.191	1.852	2.820

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

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/ictp-human-elisa-kits/cross-linked-c-terminal-telopeptide-of-collagen-alpha-1-i-chain/764432