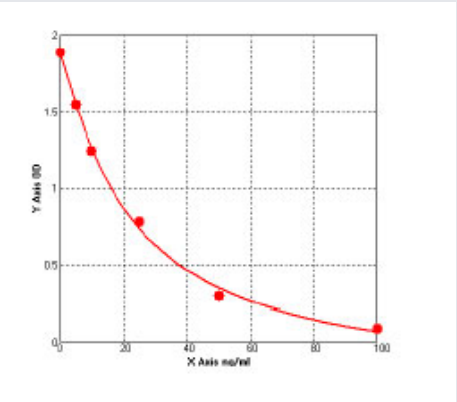
Cyclooxygenase 1 (COX1) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Cyclooxygenase 1 (COX1), ELISA Kit
Full Product Name	Human Cyclooxygenase 1 ELISA Kit
Product Gene Name	COX1 elisa kit
Species Reactivity	Human
Assay Type	Quantitative Competitive
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Sensitivity	1.0 ng/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of COX1. No significant cross-reactivity or interference between COX1 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between COX1 and all the analogues, therefore, cross reaction may still exist in some cases.
Preparation and Storage	Store all reagents at 2-8 degree C.
Molecular Weight	67,792 Da
Sample Preparation	We suggest pre-experimenting with neat (undiluted) samples, 1:2 or 1:4 dilutions. Please avoid diluting your samples more than 1:10 as it would exceed the dilution limit set for this kit. If the expected concentration of the target is beyond the detection range of the kit, please contact our technical support team
Product Categories/Family for COX1 elisa kit	Cardiovascular
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for COX1 elisa kit	Principle of the Assay: COX1 ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-COX1 antibody and an COX1-HRP conjugate. The assay sample and buffer are incubated together with COX1-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the COX1 concentration since COX1 from samples and COX1-HRP conjugate compete for the anti-COX1 antibody binding site. Since the number of sites is limited, as more sites are occupied by COX1 from the sample, fewer sites are left to bind COX1-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The COX1 concentration in each sample is interpolated from this standard curve. Intended Uses: This COX1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human COX1. This ELISA kit for research use only, not for therapeutic or test applications!
Other Notes	Small volumes of COX1 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 COX1 purchase	MBS721544 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cyclooxygenase 1 (COX1) 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 COX1. The ELISA analytical biochemical technique of the MBS721544 kit is based on COX1 antibody-COX1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect COX1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, COX1. 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 COX1 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for COX1. It may not necessarily be applicable to this product.

NCBI GI #	117307526
NCBI GeneID	100037245
NCBI Accession #	BAF36493.1
NCBI Official Full Name	cyclooxygenase 1
NCBI Official Synonym Full Names	prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase)<
NCBI Official Symbol	ptgs1
NCBI Official Synonym Symbols	cox1
UniProt Protein Name	Cyclooxygenase 1
UniProt Synonym Protein Names	Cyclooxygenase 1
Protein Family	Prostaglandin G/H synthase
UniProt Gene Name	ptgs1
UniProt Synonym Gene Names	COX1
UniProt Entry Name	A0A9J3_XENLA
NCBI Protein Information	prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase); prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase); cyclooxygenase 1
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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