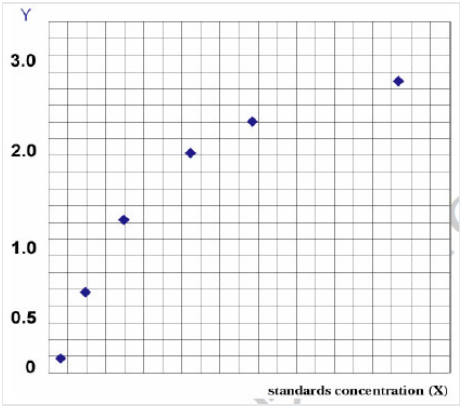
Cytochrome Oxidase 4 (CoX 4) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Cytochrome Oxidase 4 (CoX 4), ELISA Kit
Full Product Name	Human Cytochrome Oxidase 4 ELISA Kit
Product Gene Name	CoX 4 elisa kit
Species Reactivity	Human
Assay Type	Competitive
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Detection Range	5.0-100ng/mL
Sensitivity	1.0ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.
Molecular Weight	20,613 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
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for CoX 4 elisa kit	**Intended Uses:** This COX-4 ELISA kit is intended Laboratory for research use only.The Stop Solution changes the color from blue to yellow and the intensity of the color is measured at 450 nm using a spectrophotometer. In order to measure the concentration ofCOX-4 in the sample, this COX-4 ELISA Kit includes a set of calibration standards. The calibration standards are assayed at the same time as the samples and allow the operator to produce a standard curve of Optical Density versusCOX-4 concentration. The concentration ofCOX-4 in the samples is then determined by comparing the O.D. of the samples to the standard curve. **Principle of the Assay:** This COX-4 enzyme linked immunosorbent assay applies a technique called a quantitative sandwich immunoassay. The microtiter plate provided in this kit has been pre-coated with a monoclonal antibody specific forCOX-4. Standards or samples are then added to the microtiter plate wells andCOX-4 if present, will bind to the antibody pre-coated wells. In order to quantitatively determine the amount ofCOX-4 present in the sample, a standardized preparation of horseradish peroxidase (HRP)-conjugated polyclonal antibody, specific forCOX-4 are added to each well to "sandwich" theCOX-4 immobilized on the plate. The microtiter plate undergoes incubation, and then the wells are thoroughly washed to remove all unbound components. Next, A and B substrate solution is added to each well. The enzyme (HRP) and substrate are allowed to react over a short incubation period.Only those wells that containCOX-4 and enzyme-conjugated antibody will exhibit a change in colour. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the colour change is measured spectrophotometrically at a wavelength of 450 nm.
Other Notes	Small volumes of CoX 4 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 CoX 4 purchase	MBS733197 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cytochrome Oxidase 4 (CoX 4) 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 CoX 4. The ELISA analytical biochemical technique of the MBS733197 kit is based on CoX 4 antibody-CoX 4 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CoX 4 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CoX 4. 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 CoX 4 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CoX 4. It may not necessarily be applicable to this product.

NCBI GI #	62297096
NCBI GeneID	3879200
NCBI Accession #	P06809.2
UniProt Secondary Accession #	Q7SBP9
UniProt Related Accession #	P06809
NCBI Official Full Name	Cytochrome c oxidase subunit 4, mitochondrial
NCBI Official Symbol	NCU05689
UniProt Protein Name	Cytochrome c oxidase subunit 4, mitochondrial
UniProt Synonym Protein Names	Cytochrome c oxidase polypeptide IV
UniProt Gene Name	cox-4
UniProt Synonym Gene Names	NCU05689
UniProt Entry Name	COX4_NEUCR
NCBI Protein Information	cytochrome c oxidase polypeptide IV, mitochondrial precursor
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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