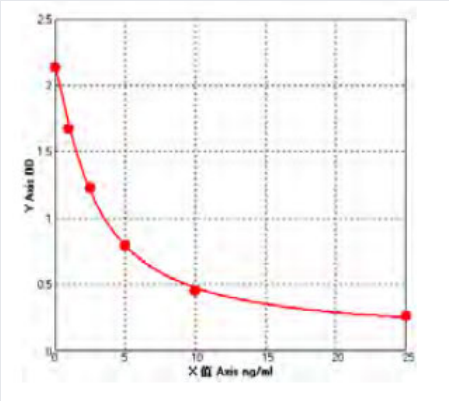
Cyclin E (CE) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Cyclin E (CE), ELISA Kit
Full Product Name	Human Cyclin E ELISA Kit
Product Gene Name	CE elisa kit
Species Reactivity	Human
Assay Type	Quantitative Competitive
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Sensitivity	0.1 ng/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of CCNE. No significant cross-reactivity or interference between CCNE and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between CCNE 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	45,150 Da
OMIM	123837
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 CE elisa kit	Cell Biology
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for CE elisa kit	Intended Uses: This CCNE ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human CCNE. This ELISA kit for research use only, not for therapeutic or test applications! Principle of the Assay: CCNE ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-CCNE antibody and an CCNE-HRP conjugate. The assay sample and buffer are incubated together with CCNE-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 CCNE concentration since CCNE from samples and CCNE-HRP conjugate compete for the anti-CCNE antibody binding site. Since the number of sites is limited, as more sites are occupied by CCNE from the sample, fewer sites are left to bind CCNE-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The CCNE concentration in each sample is interpolated from this standard curve.
Other Notes	Small volumes of CE 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 CE purchase	MBS722435 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cyclin E (CE) 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 CE. The ELISA analytical biochemical technique of the MBS722435 kit is based on CE antibody-CE antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CE antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CE. 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 CE elisa kit

ADDITIONAL DETAILS

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

NCBI GI #	1117990
NCBI Accession #	AAA83269.1
UniProt Secondary Accession #	Q14091; Q8NFG1; Q92501; Q9UD21; A8K684
NCBI Official Full Name	cyclin E, partial
UniProt Protein Name	G1/S-specific cyclin-E1
Protein Family	G1/S-specific cyclin
UniProt Gene Name	CCNE1
UniProt Synonym Gene Names	CCNE
UniProt Entry Name	CCNE1_HUMAN

UniProt Comments for CE	CCNE1: a member of the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Forms a complex with and functions as a regulatory subunit of CDK2, whose activity is required for cell cycle G1/S transition. Accumulates at the G1-S phase boundary and is degraded as cells progress through S phase. Two alternatively spliced isoforms have been described. Protein type: Nuclear receptor co-regulator; Activator; Cell cycle regulation Chromosomal Location of Human Ortholog: 19q12 Cellular Component: nucleoplasm; cyclin-dependent protein kinase holoenzyme complex; cytosol; nucleus Molecular Function: protein binding; androgen receptor binding; transcription coactivator activity; kinase activity; cyclin-dependent protein kinase regulator activity; protein kinase binding Biological Process: G1/S-specific transcription in mitotic cell cycle; Wnt receptor signaling pathway; DNA replication initiation; cell division; regulation of cell cycle; positive regulation of transcription, DNA-dependent; androgen receptor signaling pathway; mitotic cell cycle; regulation of protein kinase activity; protein amino acid phosphorylation; G1/S transition of mitotic cell cycle
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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