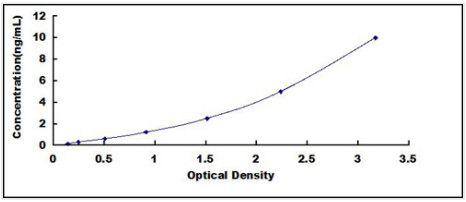
Complexin 1 (CPLX1) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Complexin 1 (CPLX1), ELISA Kit
Full Product Name	Human Complexin 1 (CPLX1) ELISA Kit
Product Gene Name	CPLX1 elisa kit
Product Synonym Names	CPX-I; CPX1; Synaphin-2
Species Reactivity	Human
Assay Type	Double-antibody Sandwich
Samples	Tissue Homogenates, Cell Lysates, Cell Culture Supernates and Other Biological Fluids
Detection Range	0.156-10ng/mL
Sensitivity	< 0.061ng/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of Complexin 1 (CPLX1). No significant cross-reactivity or interference between Complexin 1 (CPLX1) and analogues was observed.
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.
Molecular Weight	15,122 Da
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Complexin 1 (CPLX1) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Complexin 1 (CPLX1) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
ISO Certification	Manufactured in an ISO 9001:2008 and ISO 13485:2003 Certified Laboratory.
Related Product Information for CPLX1 elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Complexin 1 (CPLX1). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Complexin 1 (CPLX1). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Complexin 1 (CPLX1), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Complexin 1 (CPLX1) in the samples is then determined by comparing the O.D. of the samples to the standard curve.

Other Notes	Small volumes of CPLX1 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 CPLX1 purchase	MBS2704412 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Complexin 1 (CPLX1) 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 CPLX1. The ELISA analytical biochemical technique of the MBS2704412 kit is based on CPLX1 antibody-CPLX1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CPLX1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CPLX1. 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 CPLX1 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CPLX1. It may not necessarily be applicable to this product.

NCBI GI #	149028674
NCBI GeneID	64832
NCBI Accession #	EDL84015.1
UniProt Secondary Accession #	O09057; O09142; Q566D7; Q64276
UniProt Related Accession #	P63041
NCBI Official Full Name	complexin 1
NCBI Official Synonym Full Names	complexin 1
NCBI Official Symbol	Cplx1
UniProt Protein Name	Complexin-1
UniProt Synonym Protein Names	Complexin I; CPX I; Synaphin-2
UniProt Gene Name	Cplx1
UniProt Synonym Gene Names	CPX I
NCBI Protein Information	complexin-1
NCBI Summary for CPLX1	binds the assembled SNARE (soluble N-ethylmaleimide-sensitive factor attached protein receptor) complex; modulates synaptic vesicle exocytosis [RGD, Feb 2006]

UniProt Comments for CPLX1	CPLX1: Positively regulates a late step in synaptic vesicle exocytosis. Organizes the SNAREs into a cross-linked zigzag topology that, when interposed between the vesicle and plasma membranes, is incompatible with fusion, thereby preventing SNAREs from releasing neurotransmitters until an action potential arrives at the synapse. Also involved in glucose-induced secretion of insulin by pancreatic beta-cells. Belongs to the complexin/synaphin family. Protein type: Vesicle Chromosomal Location of Human Ortholog: 14p22 Cellular Component: cell soma; cytosol; dendrite; protein complex; SNARE complex; synapse; terminal bouton Molecular Function: neurotransmitter transporter activity; SNARE binding; syntaxin-1 binding Biological Process: insulin secretion; synaptic vesicle exocytosis
Research Articles on CPLX1	**1.** Munc18a does not alter synaptic fusion rates mediated by neuronal SNAREs, synaptotagmin-1, and complexin-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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