Complement Component 1s (C1S) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Complement Component 1s (C1s), ELISA Kit
Full Product Name	Human Complement Component 1s (C1s) ELISA Kit
Product Gene Name	C1s elisa kit
Species Reactivity	Human
Assay Type	sandwich
Samples	cell culture supernates, serum and plasma (heparin, EDTA, citrate and urine
Detection Range	0.78ng/ml-50ng/ml
Sensitivity	<0.1ng/ml
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles. (Shipped with wet ice)
Molecular Weight	76,684 Da
Chromosome Location	Chromosome: 12; NC_000012.11 (7167980..7178336). Location: 12p13
OMIM	120580
3D Structure	ModBase 3D Structure for P09871
Detection Target	Complement Component 1s (C1s)
Immunogen Sequence	333
Cross-Reactivity	There is no detectable cross-reactivity with other relevant proteins.
Related Product Information for C1s elisa kit	This Human Complement Component 1s (C1s) ELISA Kit is intended for quantitative detection of human C1S in cell culture supernates, serum and plasma (heparin, EDTA, citrate and urine. Strip well format. Reagents for up to 96 tests. This human C1S ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for C1S has been precoated onto 96-well plates. Standards (Expression system for standard: NSO, Immunogen sequence: E16-D688) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for C1S is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was 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 human Fibronectin amount of sample captured in plate. The capture antibody is a monoclonal antibody from mouse, the detection antibody is a biotinylated detection polyclonal antibody from goat. Expression system for standard: Complement component 1s is a protein involved in the complement system. It is mapped to 12p13.31. This gene encodes a serine protease, which is a major constituent of the human complement subcomponent C1. C1s associates with two other complement components C1r and C1q in order to yield the first component of the serum complement system. Defects in this gene are the cause of selective C1s deficiency.
Other Notes	Small volumes of C1s 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 C1s purchase	MBS138350 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Complement Component 1s (C1s) 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 C1s. The ELISA analytical biochemical technique of the MBS138350 kit is based on C1s antibody-C1s antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect C1s antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, C1s. 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(%).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for C1s. It may not necessarily be applicable to this product.

NCBI GI #	4502495
NCBI GeneID	716
NCBI Accession #	NP_001725.1
UniProt Primary Accession #	P09871
UniProt Secondary Accession #	Q9UCU7; Q9UCU8; Q9UCU9; Q9UCV0; Q9UCV1; Q9UCV2; Q9UCV3; Q9UCV4; Q9UCV5; Q9UM14; D3DUT4
UniProt Related Accession #	P09871
GenBank Nucleotide #	NM_001734.3
NCBI Official Full Name	complement C1s subcomponent
NCBI Official Synonym Full Names	complement component 1, s subcomponent
NCBI Official Symbol	C1S
UniProt Protein Name	Complement C1s subcomponent
UniProt Synonym Protein Names	C1 esterase; Complement component 1 subcomponent s
UniProt Gene Name	C1S
UniProt Entry Name	C1S_HUMAN
NCBI Protein Information	complement C1s subcomponent; C1 esterase; basic proline-rich peptide IB-1; complement component 1 subcomponent s
NCBI Summary for C1s	This gene encodes a serine protease, which is a major constituent of the human complement subcomponent C1. C1s associates with two other complement components C1r and C1q in order to yield the first component of the serum complement system. Defects in this gene are the cause of selective C1s deficiency. [provided by RefSeq, Mar 2009]

UniProt Comments for C1s	C1S: C1s B chain is a serine protease that combines with C1q and C1r to form C1, the first component of the classical pathway of the complement system. C1r activates C1s so that it can, in turn, activate C2 and C4. Defects in C1S are the cause of complement component C1s deficiency (C1SD). A rare defect resulting in C1 deficiency and impaired activation of the complement classical pathway. C1 deficiency generally leads to severe immune complex disease with features of systemic lupus erythematosus and glomerulonephritis. Belongs to the peptidase S1 family. Protein type: Protease; EC 3.4.21.42 Chromosomal Location of Human Ortholog: 12p13 Cellular Component: extracellular region Molecular Function: identical protein binding; protein binding; serine-type endopeptidase activity; calcium ion binding Biological Process: innate immune response; proteolysis; complement activation, classical pathway; complement activation Disease: Complement Component C1s Deficiency
Research Articles on C1s	**1.** Four positively charged amino acids on the serine protease domain appear to form a catalytic exosite that is required for efficient cleavage of C4 in the classical pathway of complement.
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