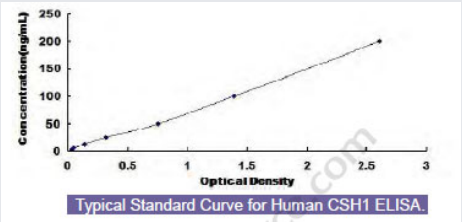
Chorionic Somatomammotropin Hormone 1 (CSH1) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Chorionic Somatomammotropin Hormone 1 (CSH1), ELISA Kit
Full Product Name	Human Chorionic Somatomammotropin Hormone 1 (CSH1) ELISA Kit
Product Gene Name	CSH1 elisa kit
Product Synonym Names	Placental Lactogen; CSH1; hCS-A; CSA; CSMT; Chorionic Somatomammotropin Hormone 1; Choriomammotropin
Species Reactivity	Human
Assay Type	Quantitative Sandwich
Samples	Serum, plasma, tissue homogenates and other biological fluids
Detection Range	3.125-200ng/mL
Sensitivity	<1.12ng/mL.
Specificity	This assay has high sensitivity and excellent specificity for detection of CSH1. No significant cross-reactivity or interference between CSH1 and analogues was observed.
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level CSH1 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level CSH1 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Molecular Weight	25,020 Da
OMIM	K02401 Genomic DNA
3D Structure	ModBase 3D Structure for P0DML2
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for CSH1 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of CSH1 in human serum, plasma, tissue homogenates and other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to CSH1. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to CSH1. 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 CSH1, 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 CSH1 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of CSH1 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 CSH1 purchase	MBS456848 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Chorionic Somatomammotropin Hormone 1 (CSH1) 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 CSH1. The ELISA analytical biochemical technique of the MBS456848 kit is based on CSH1 antibody-CSH1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CSH1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CSH1. 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 CSH1 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CSH1. It may not necessarily be applicable to this product.

NCBI GI #	4503083
NCBI GeneID	1442
NCBI Accession #	NP_001308.1
UniProt Primary Accession #	P0DML2
UniProt Secondary Accession #	P01243; Q0VDB1; Q14407
UniProt Related Accession #	P0DML2
GenBank Nucleotide #	NM_001317.5
NCBI Official Full Name	chorionic somatomammotropin hormone 1
NCBI Official Synonym Full Names	chorionic somatomammotropin hormone 1
NCBI Official Symbol	CSH1
NCBI Official Synonym Symbols	PL; CSA; CS-1; CSMT; GHB3; hCS-1; hCS-A
UniProt Protein Name	Chorionic somatomammotropin hormone 1
UniProt Synonym Protein Names	Lactogen; Placental lactogen; PL
Protein Family	Chorionic somatomammotropin hormone
UniProt Gene Name	CSH1
UniProt Synonym Gene Names	Choriomammotropin; PL
NCBI Protein Information	chorionic somatomammotropin hormone 1
NCBI Summary for CSH1	The protein encoded by this gene is a member of the somatotropin/prolactin family of hormones and plays an important role in growth control. The gene is located at the growth hormone locus on chromosome 17 along with four other related genes in the same transcriptional orientation; an arrangement which is thought to have evolved by a series of gene duplications. Although the five genes share a remarkably high degree of sequence identity, they are expressed selectively in different tissues. Alternative splicing generates additional isoforms of each of the five growth hormones, leading to further diversity and potential for specialization. This particular family member is expressed mainly in the placenta and utilizes multiple transcription initiation sites. Expression of the identical mature proteins for chorionic somatomammotropin hormones 1 and 2 is upregulated during development, although the ratio of 1 to 2 increases by term. Mutations in this gene result in placental lactogen deficiency and Silver-Russell syndrome. [provided by RefSeq, Jul 2008]

UniProt Comments for CSH1	CSH1: Produced only during pregnancy and is involved in stimulating lactation, fetal growth and metabolism. Does not interact with GHR but only activates PRLR through zinc-induced dimerization. Belongs to the somatotropin/prolactin family. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 17q23.3 Cellular Component: endoplasmic reticulum; extracellular region; vesicle Molecular Function: hormone activity; metal ion binding
Research Articles on CSH1	**1.** Placental lactogen is expressed but is not translated into protein in breast cancer.
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