

Datasheet for ABIN6719998

IL-10 ELISA Kit**1** Image[Go to Product page](#)

Overview

Quantity:	1 kit
Target:	IL-10 (IL10)
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	7.8 pg/mL - 500 pg/mL
Minimum Detection Limit:	7.8 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin - citrate), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	<p>Synonyms: CSIF, Cytokine synthesis inhibitory factor, GVHDS, IL 10, IL-10, IL10, IL10_HUMAN, IL10A, Interleukin 10, Interleukin-10, Interleukin10, MGC126450, MGC126451, T cell growth inhibitory factor, TGIF</p> <p>Background: Interleukin-10, also called cytokine synthesis inhibitory factor, is implicated in tumorigenesis, and it has been shown that polymorphisms in its gene promoter correlate with differential amounts of production. IL-10 is an important cytokine with anti-inflammatory, anti-immune, and antifibrotic functions. It is also an important regulatory cytokine whose involvement extends into diverse areas of the human immune system. IL-10 is a recently</p>

Product Details

described natural endogenous immunosuppressive cytokine that has been identified in human, murine, and other organisms. IL-10 significantly affects chemokine biology, because human IL-10 inhibits chemokine production and is a specific chemotactic factor for CD8+ T cells. It suppresses the ability of CD4+ T cells, but not CD8+ T cells, to migrate in response to IL-8. Interleukin-10 gene polymorphisms and interleukin-10 production capability may contribute to the development of skin squamous cell carcinomas after renal transplantation.¹ The interleukin-10 locus contributes to the heritability of psoriasis susceptibility. With regard to sudden infant death, IL-10 is of special interest. This is an immunoregulatory cytokine that plays an important role in the development of infectious disease. The mIL-10 gene is mapped to mouse chromosome 1 and the hIL-10 gene is also mapped to human chromosome 1. The standard product used in this kit is recombinant human IL-10, consisting of 160 amino acids with the molecular mass of 18.6KDa.

Gene Name: IL10

Production: Natural and recombinant human IL-10. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: E.coli, Immunogen sequence: S19-N178

Target Details

Target:	IL-10 (IL10)
Alternative Name:	IL-10 (IL10 Products)
Gene ID:	3586
NCBI Accession:	NP_000563
UniProt:	P22301
Pathways:	Cellular Response to Molecule of Bacterial Origin , Regulation of Leukocyte Mediated Immunity , Production of Molecular Mediator of Immune Response , Maintenance of Protein Location , Cancer Immune Checkpoints

Application Details

Application Notes:	Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.3pg/mL, 15.6pg/mL, 7.8pg/mL human IL-10 standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernates, serum or plasma (heparin, EDTA, citrate) to each
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Application Details

empty well. We recommend that each human IL-10 standard solution and each sample is measured in duplicate.

Blood Product Anticoagulant: Heparin Sodium

ELISA Dilution: 7.8pg/mL-500pg/mL(cellculturesupernates)3.4pg/mL-250pg/mL(humanserum,plasma)

Sample Volume: 100 μ L

Plate: Pre-coated

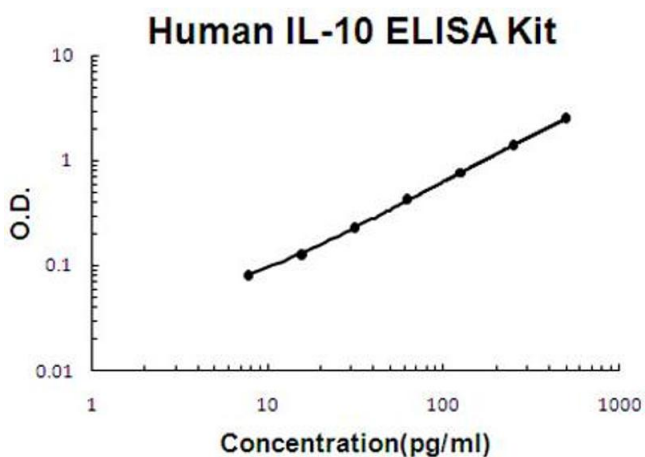
Restrictions: For Research Use only

Handling

Storage: RT,4 °C,-20 °C

Storage Comment: Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.

Images



ELISA

Image 1. Human IL-10 Accusignal ELISA Kit Human IL-10 AccuSignal ELISA Kit standard curve. Assay Range: 7.8pg/ml-500pg/ml(cellculturesupernates)3.4pg/ml-250pg/ml(humanserum,plasma). Sensitivity: <0.5pg/ml.