

Datasheet for ABIN6719939

IL-7 ELISA Kit[Go to Product page](#)**1** Image

Overview

Quantity:	1 kit
Target:	IL-7 (IL7)
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	15.6 pg/mL - 1000 pg/mL
Minimum Detection Limit:	15.6 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (EDTA), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	<p>Synonyms: IL 7, IL7 nirs variant 6, Interleukin 7, Interleukin7</p> <p>Background: IL-7 a hematopoietic growth factor secreted by stromal cells in the red marrow and thymus. It is also produced by keratinocytes,¹ dendritic cells,² hepatocytes,³ neurons, and endothelial cells⁴. Interleukin 7(IL7) is a protein⁵ that in humans is encoded by the IL7 gene.^{6, 7, 8} Knockout studies in mice suggested that this cytokine plays an essential role in lymphoid cell survival.⁹ IL-7 is a cytokine important for B and T cell development. This cytokine and the hepatocyte growth factor(HGF) form a heterodimer that functions as a pre-pro-B cell growth-stimulating factor. This cytokine is found to be a cofactor for V(D)J rearrangement of the T cell</p>

Product Details

receptor beta(TCRB) during early T cell development.

Gene Name: IL7

Production: Natural and recombinant human IL-7. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: E.coli, Immunogen sequence: D26-H177

Target Details

Target:	IL-7 (IL7)
Alternative Name:	IL-7 (IL7 Products)
Gene ID:	3574
NCBI Accession:	NP_000871
UniProt:	A8K673
Pathways:	JAK-STAT Signaling

Application Details

Application Notes: Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL, 15.6pg/mL human IL-7 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(EDTA) to each empty well. It is recommended that each human IL-7 standard solution and each sample be measured in duplicate.

Blood Product Anticoagulant: Sodium EDTA

ELISA Dilution: 15.6pg/mL-1000pg/mL

Sample Volume:	100 µL
Plate:	Pre-coated
Restrictions:	For Research Use only

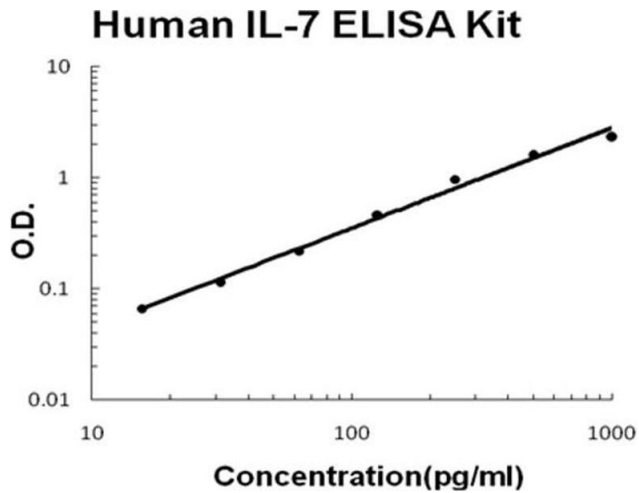
Handling

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

Handling

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-7 Accusignal ELISA Kit Human IL-7 AccuSignal ELISA Kit standard curve. Assay Range: 15.6pg/ml-1000pg/ml. Sensitivity: <1pg/ml.