



Human Interleukin 8, IL-8 ELISA KIT

Product Code	CSB-E04641h
Protein Biological Process 2	chemokine
Abbreviation	CXCL8
Protein Biological Process 1	Cytokine
Target Name	interleukin 8
Uniprot No.	P10145
Alias	CXCL8, GCP-1, GCP1, LECT, LUCT, LYNAP, MDNCF, MONAP, NAF, NAP-1, NAP1, T cell chemotactic factor beta-thromboglobulin-like protein chemokine (C-X-C motif) ligand 8 emotakin granulocyte chemotactic
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Chemotaxis
Sample Types	serum, cell culture supernates, saliva, urine, cerebrospinal fluid (CSF), tissue homogenates, cell lysates
Detection Range	31.25 pg/mL-2000 pg/mL
Sensitivity	7.110 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Immunology
Quality Control	<p>A microplate reader capable of measuring absorbance at 450 nm, with the correction wavelength set at 540 nm or 570 nm.</p> <p>An incubator that can provide stable incubation conditions up to 37°C±5°C.</p> <p>Squirt bottle, manifold dispenser, or automated microplate washer.</p> <p>Absorbent paper for blotting the microtiter plate.</p> <p>100ml and 500ml graduated cylinders.</p> <p>Deionized or distilled water.</p> <p>Adjustable pipettes to measure volumes ranging from 2 µL to 1 mL and pipette tips.</p> <p>Timer</p> <p>Test tubes for dilution.</p>
Gene Names	CXCL8



Tag Info	quantitative
Protein Description	Sandwich
Component	<p>A micro ELISA plate --- The 96-well plate has been pre-coated with an anti-human IL-8 antibody. This dismountable microplate can be divided into 12 x 8 strip plates.</p> <p>Two vials lyophilized standard --- Dilute a bottle of the standard at dilution series, read the OD values, and then draw a standard curve.</p> <p>One vial Biotin-labeled IL-8 antibody (100 x concentrate) (120 µl/bottle) ---Act as the detection antibody.</p> <p>One vial HRP-avidin (100 x concentrate) (120 µl/bottle) --- Bind to the detection antibody and react with the TMB substrate to make the solution chromogenic.</p> <p>One vial Biotin-antibody Diluent (15 ml/bottle) ---Dilute the high concentration Biotin-antibody to an appropriate working solution.</p> <p>One vial HRP-avidin Diluent (15 ml/bottle) ---Dilute the high concentration HRP-avidin solution to an appropriate solution.</p> <p>One vial Sample Diluent (50 ml/bottle)---Dilute the sample to an appropriate concentration.</p> <p>One vial Wash Buffer (25 x concentrate) (20 ml/bottle) --- Wash away unbound or free substances.</p> <p>One vial TMB Substrate (10 ml/bottle) --- Act as the chromogenic agent. TMB interacts with HRP, eliciting the solution turns blue.</p> <p>One vial Stop Solution (10 ml/bottle) --- Stop the color reaction. The solution color immediately turns from blue to yellow.</p> <p>Four Adhesive Strips (For 96 wells) --- Cover the microplate when incubation.</p> <p>An instruction manual</p>
Description	<p>This Human IL8 ELISA Kit was designed for the quantitative measurement of Human IL8 protein in serum, cell culture supernates, saliva, urine, cerebrospinal fluid (CSF), tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 31.25 pg/mL-2000 pg/mL and the sensitivity is 7.110 pg/mL.</p>
Target Details	<p>This protein is a member of the CXC chemokine family. This chemokine is one of the major mediators of the inflammatory response. This chemokine is secreted by several cell types. It functions as a chemoattractant, and is also a potent angiogenic factor. This gene is believed to play a role in the pathogenesis of bronchiolitis, a common respiratory tract disease caused by viral infection. This gene and other ten members of the CXC chemokine gene family form a chemokine gene cluster in a region mapped to chromosome 4q.</p>
Product Precision	<p>Intra-assay Precision (Precision within an assay): CV%<8%</p> <p>Three samples of known concentration were tested twenty times on one plate to assess.</p> <p>Inter-assay Precision (Precision between assays): CV%<10%</p> <p>Three samples of known concentration were tested in twenty assays to assess.</p>



	Intra-Assay Precision			Inter-Assay Precision		
Sample	1	2	3	1	2	3
n	20	20	20	20	20	20
Mean(pg/ml)	248.288	246.157	253.844	245.915	248.976	247.191
SD	0.057	0.045	0.052	0.021	0.028	0.061
CV(%)	7.06	5.61	6.33	2.62	3.46	7.58

Linearity

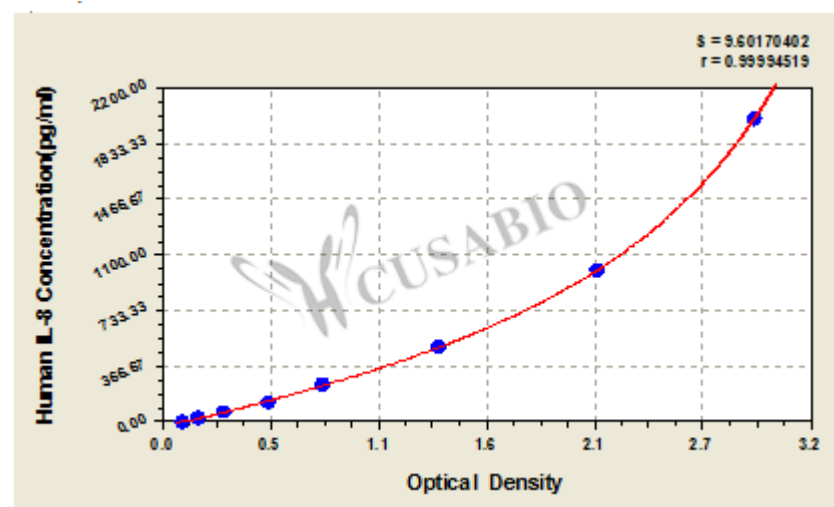
To assess the linearity of the assay, samples were spiked with high concentrations of human IL-8 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

	Sample	Serum(n=4)
1:2	Average %	92
	Range %	88-100
1:4	Average %	97
	Range %	93-104
1:8	Average %	93
	Range %	89-102
1:16	Average %	96
	Range %	94-99

	Sample	Cell Culture Supernatants (n=4)
1:2	Average %	95
	Range %	91-104
1:4	Average %	93
	Range %	89-107
1:8	Average %	95
	Range %	86-104
1:16	Average %	90
	Range %	83-98

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.





ng/ml	OD1	OD2	Average	corrected
0	0.102	0.108	0.105	
31.25	0.187	0.183	0.185	0.080
62.5	0.302	0.308	0.305	0.200
125	0.525	0.519	0.522	0.417
250	0.796	0.792	0.794	0.689
500	1.362	1.358	1.360	1.255
1000	2.135	2.131	2.133	2.028
2000	2.907	2.895	2.901	2.796

Msds

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