

**DIACLONE IMMUNOLOGY PRODUCTS**

# HUMAN IL-6 ELISA KIT

(CE certified product)

Diacclone ELISA (Enzyme Linked Immuno-Sorbent Assays) are highly sensitive assays designed for the *in-vitro* quantitative and qualitative determination of cytokines, CD antigens, apoptosis markers and other analytes from human serum, plasma and cell culture supernatant.

IL-6 is a multi-functional cytokine, produced by T-cells, macrophages and endothelial cells, that regulates immune responses, acute phase reactions and hematopoiesis. IL-6 acts on a wide range of tissues and cells exerting growth-induction, growth-inhibition and differentiation depending on the nature of the target cell. IL-6 is involved in B-cell differentiation, IL-2 induction and receptor expression, myeloid cell differentiation to macrophages, induction of acute phase proteins in liver cells and autocrine stimulation of T-cells. Measurement of IL-6 levels can therefore be an excellent marker for the identification of a host response to various pathological situations.

## SPECIFICATION

<b>Catalogue Number</b>	1x96 wells 950.030.096 2x96 wells 950.030.192
<b>Specificity</b>	Recognizes both natural and recombinant human IL-6
<b>Range</b>	6.25pg/ml – 200pg/ml
<b>Sensitivity</b>	<2pg/ml
<b>Incubation Time</b>	105 min
<b>Sample Types</b>	Serum, Plasma, Cell culture supernatant
<b>Sample Size</b>	100 µl
<b>Cross Reactivity</b>	No cross reactivity with other human cytokines tested No interference with soluble receptor gp80
<b>Intra-assay CV</b>	4.2%
<b>Inter-assay CV</b>	7.7%
<b>Mean 'spike' recovery</b>	103%

## RELATED PRODUCTS

Product	Format	Catalogue Number
Human IL-6 High Sensitivity ELISA Kit	1x96 well	950.035.096
	2x96 well	950.035.192
Human IL-6 ELI-Pair	5x96 well	851.520.005
	10x96 well	851.520.010
	15x96 well	851.520.015
	20x96 well	851.520.020

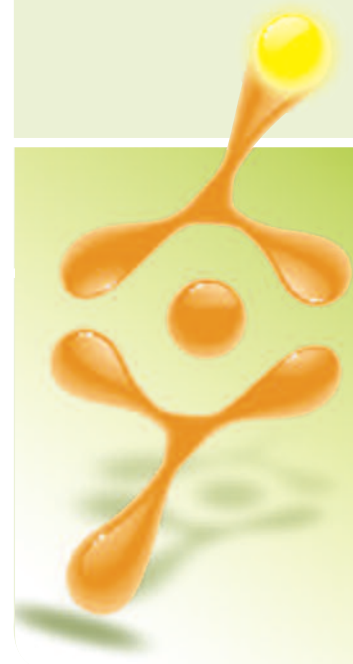
## INTENDED USE

IL-6 is known to play a significant role in the immune response to infection, autoimmunity, proliferative diseases, neoplastic diseases, rheumatoid arthritis and inflammatory responses.

Utilising solid phase sandwich immuno-enzyme technology and high affinity antibodies Diacclone IL-6 ELISA can be used to provide an important tool for the quantitative and qualitative analysis of IL-6 in a number of significant diseases and infections.

## HIGH PERFORMANCE

- Very fast procedure with under 120 mins incubation required to generate results
- Accuracy and reliability are guaranteed via robust validation
- Both Natural and Recombinant antigen specificity
- No cross reactivity with other human cytokines tested (listed with kit)
- Standard Calibration to NIBSC



**DIACLONE IMMUNOLOGY PRODUCTS**
**FLEXIBILITY**

- Pre-coated plates supplied for easy analysis and increased throughput
- Removable strip plates and multiple standards allow multiple assays from each kit
- Multiple standard dilution buffers available to mimic sample composition (when necessary)
- Generated results can provide both qualitative and quantitative data when/if required
- Kits available in 2 sizes to allow expansion for testing large numbers of replicates

**PRODUCT RANGE**

With over 20 years experience and extensive expertise we are committed to providing excellence in Monoclonal Antibody and Immunoassay development

Other products available:



Monoclonal Antibodies



ELISpot



Diacclone DIAplex

With the benefits of specific, sensitive, accurate and reliable measurement of cytokine and soluble molecules combined with the diversity of the product range, Diacclone ELISA is the clear choice to...

**Fast Track Your Research...**

**ANALYTICAL PROCEDURE**

- 1: A capture antibody highly specific for IL-6 has been pre-coated to the wells of a 96 well microtitre plate.
- 2: Either standard, control or sample under test are added to wells in duplicate. In addition the anti-IL-6 biotinylated antibody is also added to each well at this stage. The plate is then incubated to allow simultaneous binding of both the IL-6 present in the test solutions and the anti-IL-6 biotinylated antibody.
- 3: Streptavidin-HRP solution is added to all wells and incubated as directed per kit instructions.
- 4: TMB coloured substrate solution reactive with HRP is added to each well and incubated, wrap in foil in the dark as directed per kit instructions.
- 5: Stop solution added to every well and the results immediately read using an appropriate spectro-photometer using 450nm as the primary wavelength (with an optional 620nm reference wavelength). The resultant data can be quantified using the appropriate analysis software.

