



# Mouse Tumor necrosis factor $\alpha$ , TNF- $\alpha$ ELISA KIT

<b>Product Code</b>	CSB-E04741m
<b>Abbreviation</b>	TNF
<b>Uniprot No.</b>	P06804
<b>Product Type</b>	ELISA Kit
<b>Immunogen Species</b>	Mus musculus (Mouse)
<b>Sample Types</b>	serum, plasma, cell culture supernates, tissue homogenates
<b>Detection Range</b>	15.6 pg/ml-1000 pg/ml
<b>Sensitivity</b>	3.9 pg/ml
<b>Assay Time</b>	1-5h
<b>Sample Volume</b>	50-100ul
<b>Detection Wavelength</b>	450 nm
<b>Lead Time</b>	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
<b>Research Area</b>	Immunology
<b>Quality Control</b>	<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 can provide stable incubation conditions up to 37°C±5°C.</p> <p>Centrifuge</p> <p>Vortex</p> <p>Squirt bottle, manifold dispenser, or automated microplate washer</p> <p>Absorbent paper for blotting the microtiter plate</p> <p>50-300ul multi-channel micropipette</p> <p>Pipette tips</p> <p>Single-channel micropipette with different ranges</p> <p>100ml and 500ml graduated cylinders</p> <p>Deionized or distilled water</p> <p>Timer</p> <p>Test tubes for dilution</p>
<b>Gene Names</b>	Tnf
<b>Tag Info</b>	quantitative
<b>Protein Description</b>	Sandwich
<b>Component</b>	<p>An assay plate --- The 96-well plate is composed of 12 x 8 strip plates and can be taken apart.</p> <p>Two bottles of lyophilized standard --- Reconstitute one bottle of standard with sample diluent at dilution series and draw the standard curve.</p> <p>Biotin-labeled TNF-<math>\alpha</math> antibody (100 x concentrate) 1 x 120 <math>\mu</math>l --- Act as the detection antibody and need to be diluted before use.</p> <p>HRP-avidin (100 x concentrate) 1 x 120 <math>\mu</math>l --- Catalyze the TMB substrate for</p>



color development and need to be diluted before use.  
 Biotin-antibody Diluent 1 x 15 ml --- Dilute the Biotin-antibody.  
 HRP-avidin Diluent 1 x 15 ml --- Dilute the HRP-avidin.  
 Sample Diluent 1 x 50 ml --- Reconstitute the standard and dilute the sample to an appropriate concentration.  
 Wash Buffer (25 x concentrate) 1 x 20 ml --- Wash away unbound solution and non-specific substances.  
 TMB Substrate 1 x 10 ml --- Act as the chromogenic agent. TMB interacts with HRP, eliciting the solution turns blue.  
 Stop Solution 1 x 10 ml --- Add stop solution and stop the color development. The solution color immediately turns from blue to yellow.  
 Four Adhesive Strips (For 96 wells) --- Seal the microtiter plate when incubation.  
 An instruction manual

## Description

This Mouse TNF ELISA Kit was designed for the quantitative measurement of Mouse TNF protein in serum, plasma, cell culture supernates, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 15.6 pg/mL-1000 pg/mL and the sensitivity is 3.9 pg/mL.

## Product Precision

**Intra-assay Precision (Precision within an assay): CV%<8%**

Three samples of known concentration were tested twenty times on one plate to assess.

**Inter-assay Precision (Precision between assays): CV%<10%**

Three samples of known concentration were tested in twenty assays to assess.

## Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of mouse TNF- $\alpha$  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)
1:1	Average %	86
	Range %	80-92
1:2	Average %	95
	Range %	91-105
1:4	Average %	100
	Range %	92-110
1:8	Average %	92
	Range %	86-98

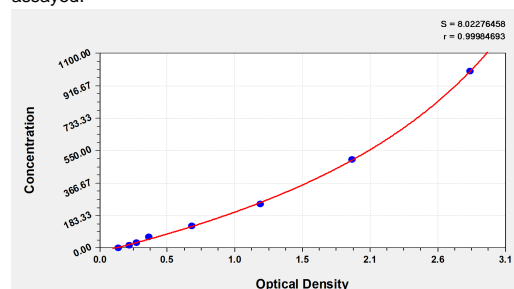
## Recovery

The recovery of mouse TNF- $\alpha$  spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	93	89-98
EDTA plasma (n=4)	95	90-100

## Typical

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





pg/ml	OD1	OD2	Average	Corrected
1000	2.793	2.822	2.808	2.651
500	1.889	1.943	1.916	1.759
250	1.245	1.211	1.228	1.071
125	0.729	0.686	0.708	0.551
62.5	0.373	0.404	0.388	0.232
31.2	0.287	0.298	0.292	0.136
15.6	0.231	0.244	0.238	0.081
0	0.152	0.161	0.157	?

## Msds

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