



# Human Epidermal growth factor,EGF ELISA Kit

<b>Product Code</b>	CSB-E08027h
<b>Abbreviation</b>	EGF
<b>Uniprot No.</b>	P01133
<b>Product Type</b>	ELISA Kit
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Sample Types</b>	serum, plasma, cell culture supernates, tissue homogenates
<b>Detection Range</b>	7.8 pg/ml-500 pg/ml.
<b>Sensitivity</b>	1.95 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>	Others
<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>	EGF
<b>Tag Info</b>	quantitative
<b>Protein Description</b>	Sandwich
<b>Component</b>	<p>A micro ELISA plate ---The 96-well plate has been pre-coated with an anti-human EGF 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 EGF antibody (100 x concentrate) (120 µl/bottle) ---Act as the detection antibody.</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.

One vial Biotin-antibody Diluent (15 ml/bottle) ---Dilute the Biotin-antibody.

One vial HRP-avidin Diluent (15 ml/bottle) ---Dilute the HRP-avidin solution.

One vial Sample Diluent (50 ml/bottle)---Dilute the sample to an appropriate concentration.

One vial Wash Buffer (25 x concentrate) (20 ml/bottle) ---Wash away unbound or free substances.

One vial TMB Substrate (10 ml/bottle) ---Act as the chromogenic agent. TMB interacts with HRP, eliciting the solution turns blue.

One vial Stop Solution (10 ml/bottle) ---Stop the color reaction. The solution color immediately turns from blue to yellow.

Four Adhesive Strips (For 96 wells) --- Cover the microplate when incubation.

An instruction manual

## Description

The Human Epidermal growth factor (EGF) ELISA Kit is a sandwich immunoassay specifically designed and validated for the quantitative measurement of EGF in serum, plasma, cell culture supernates, or tissue homogenates. Human EGF is a single-chain polypeptide consisting of 53 amino acids. Physiologically in humans, EGF has different innate concentrations in various organs. EGF is implicated in the morphogenesis of teeth, brain, reproductive tracts, skin, and gastrointestinal tracts, in cardiovascular differentiation and function, epithelial regeneration, and corneal epithelia. EGF/EGFR signaling pathway regulates proliferation, migration, differentiation, and apoptosis in mammalian cells. Aberrations of the EGF/EGFR signaling pathway will lead to human cancer.

This assay employs the Sandwich-ELISA technique, in which eNOS in the samples or standards is sandwiched between pre-coated an anti-human CgA and Biotin-labeled eNOS antibody. The Ag-Ab-Ag immune complex is labeled with HRP-avidin and then develops a color reaction after the addition of the TMB substrate. The intensity of the color is positively correlated to the amount of eNOS in the sample. The kit has high sensitivity, excellent specificity, precision low than 10%, and good lot-to-lot consistency. Get access to more details from the product instructions.

## Msds

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