

Human GM-CSF ELISA Kit

Catalog Number LDG00028E

Package 96 T (8 x 12 strips) / Customized package

For full product information, images and publications, please visit [our website](#).



Overview

Components

Granulocyte-macrophage colony-stimulating factor (GM-CSF) ELISA plate	96 wells (12 x 8-well strips)
Standard	2 vials (Lyophilized form)
Standard reconstitution buffer	2 vials (1.1 mL)
Standard & Sample diluent buffer	1 vial (12 mL)
Assay buffer	1 vial (12 mL)
HRP-antibody conjugate	1 vial (70 µL)
HRP-antibody conjugated diluent buffer	1 vial (12 mL)
20 X wash buffer	1 vial (15 mL)
TMB	1 vial (12 mL)
Stop solution	1 vial (6 mL)
Microplate sealing film	2 sheets

Specifications

Reactivity

Human

Application

Sandwich ELISA analysis

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Sensitivity

0.0514 ng/mL

Assay Range

0.078125 ng/mL-5 ng/mL

Recovery

Human Serum: 80-130%

Human Plasma: 80-130%

Specificity

Human GM-CSF

Sample Type

Human Serum / Human Plasma

Background**Background**

Granulocyte-macrophage colony-stimulating factor (GM-CSF) was first identified as a Growth Factors due to its ability to induce proliferation and differentiation of bone marrow progenitors into granulocytes and macrophages. GM-CSF is produced by multiple cell types including activated T cells, B cells, macrophages, endothelial cells and fibroblasts upon receiving immune stimuli. GM-CSF stimulates stem cells to produce granulocytes and monocytes functions as a cytokine.

Instruction**Shipping**




The product is shipped with polar packs. Upon receipt, store it immediately at 2-8°C for long term storage.

Stability & Storage

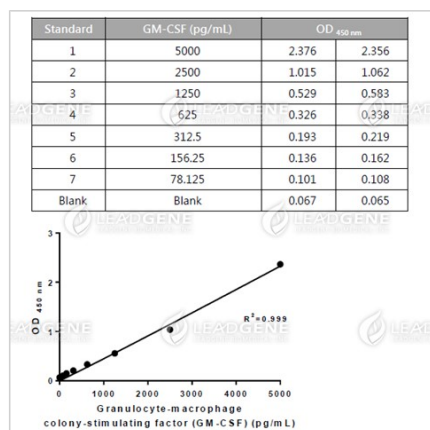
This product is stable after storage at:

- 2-8°C for unopened product.

Please refer to product manual for storage constructions.

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Image



Typical data

The following data are for demonstration only.

	1	2	3	4
A	Standard 1 (5000 pg/mL)	Standard 1 (5000 pg/mL)	Sample 1	Sample 5
B	Standard 2 (2500 pg/mL)	Standard 2 (2500 pg/mL)	Sample 1	Sample 5
C	Standard 3 (1250 pg/mL)	Standard 3 (1250 pg/mL)	Sample 2	Sample 6
D	Standard 4 (625 pg/mL)	Standard 4 (625 pg/mL)	Sample 2	Sample 6
E	Standard 5 (312.5 pg/mL)	Standard 5 (312.5 pg/mL)	Sample 3	Sample 7
F	Standard 6 (156.25 pg/mL)	Standard 6 (156.25 pg/mL)	Sample 3	Sample 7
G	Standard 7 (78.125 pg/mL)	Standard 7 (78.125 pg/mL)	Sample 4	Sample 8
H	Blank	Blank	Sample 4	Sample 8

An example of orientation of standards, blanks and samples in the stripwells microplate

Reagents (Store at 2-8°C)	Quantity 1-vial well kit	Reconstitution
Granulocyte-macrophage colony-stimulating factor (GM-CSF) ELISA plate Stripwell microplate with 96 anti-Granulocyte-macrophage colony-stimulating factor (GM-CSF) monoclonal antibodies coated wells	96 wells (12 x 8-well strips)	Ready for use
Standard Granulocyte-macrophage colony-stimulating factor (GM-CSF) lyophilized from buffered protein solution with preservatives	2 vials (lyophilized form)	Refer to the vial label for reconstitution volume. Reconstitute by adding Standard reconstitution buffer to be a stock solution of 5 ng/mL (see procedure, section 3.2)
Standard reconstitution buffer	2 vials (1.1 mL)	Ready for use
Standard & Sample diluent buffer	1 vial (12 mL)	Ready for use
Buffered protein solution with preservatives	1 vial (12 mL)	Ready for use
Antibody buffer	1 vial (12 mL)	Ready for use
HRP-antibody conjugate Conjugated Anti-Granulocyte-macrophage colony-stimulating factor (GM-CSF) monoclonal antibody in buffered protein solution with preservatives	1 vial (70 µL)	Dilute 200 x with HRP-antibody conjugated diluent buffer (See reagent preparation, section 5.A)
HRP-antibody conjugated diluent buffer	1 vial (12 mL)	Ready for use
20% wash buffer 20-fold concentrated solution of buffered surfactant with preservatives	1 vial (15 mL)	Dilute 20 x with distilled water (See reagent preparation, section 5.B)
TMB	1 vial (12 mL)	Ready for use
Chromogenic substrate (tetramethylbenzidine) for HRP	1 vial (12 mL)	Ready for use
Stop solution H ₂ SO ₄ solution	1 vial (6 mL)	Ready for use
Microplate sealing film	2 sheets	N/A

Reagents provided and reconstitution

Disclaimer : For Research Use Only. Not for use in diagnostic or therapeutic procedures.