

Human Granulocyte Macrophage Colony Stimulating Factor ELISA Kit | GM-CSF elisa kit

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CATALOG #
AAA98102

REACTIVITY
Human

PRODUCT SYNONYMS

Granulocyte Macrophage Colony Stimulating Factor; Human Granulocyte Macrophage Colony Stimulating Factor ELISA Kit; GM-CSF (Granulocyte Macrophage Colony Stimulating Factor)/GMCSF/CSF2; GM-CSF elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of GLUT4. No significant cross-reactivity or interference between GLUT4 and analogues was observed.
Sequence Length	144
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	7.813-500pg/ml
Sensitivity	4.688pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level GLUT4 were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level GLUT4 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard operation of a GM-CSF ELISA Kit are listed below. This standard curve was generated at our lab for demonstration purpose only. Users shall obtain standard curve as per experiment by themselves. (N/A=not applicable)

X	pg/ml	0	7.812	15.625	31.25	62.5	125	250	500
Y	OD450	0.166	0.22	0.345	0.474	0.627	0.984	1.503	2.329

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for GM-CSF elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-GLUT4 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-GLUT4 antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the GLUT4 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of GLUT4 can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	27437030
NCBI GeneID	1437
NCBI Accession #	NP_000749.2
NCBI GenBank Nucleotide #	NM_000758.3
Molecular Weight	16,295 Da
NCBI Official Full Name	granulocyte-macrophage colony-stimulating factor
NCBI Official Synonym Full Names	colony stimulating factor 2
NCBI Official Symbol	CSF2
NCBI Official Synonym Symbols	GMCSF
NCBI Protein Information	granulocyte-macrophage colony-stimulating factor
UniProt Protein Name	Granulocyte-macrophage colony-stimulating factor
UniProt Gene Name	CSF2
UniProt Synonym Gene Names	GMCSF; GM-CSF; CSF
UniProt Entry Name	CSF2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/gm-csf-human-elisa-kits/granulocyte-macrophage-colony-stimulating-factor/98102>