

Human GM-CSF CLIA Kit | GM-CSF clia kit

GM-CSF (Human) LumiAb ELISA Kit

CATALOG #
AAA318530

REACTIVITY
Human

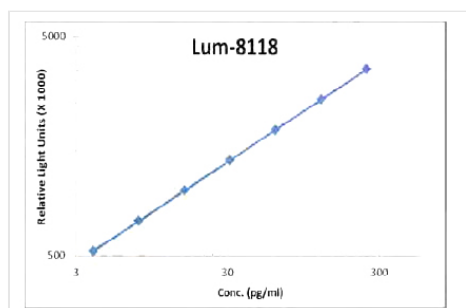
PRODUCT SYNONYMS

GM-CSF; GM-CSF (Human) LumiAb ELISA Kit; Human GM-CSF; Granulocyte-macrophage colony-stimulating factor; Colony-stimulating factor; CSF; Molgramostin; Sargramostim; GM-CSF clia kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The LumiAb Human G-CSF ELISA is capable of recognizing both recombinant and naturally produced Human G-CSF proteins. The antigens listed below were tested at 50 ng/ml and exhibited less than 1% cross reactivity.
Sequence Length	144
Assay Type	Quantitative Sandwich
Sensitivity	8 pg/ml.
Preparation and Storage	Store at 4 degree C for 6 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for GM-CSF clia kit	Principle of the Assay: The LumiAb Human G-CSF Chemiluminescent ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Human G-CSF concentrations within any experimental sample including cell lysates, serum and plasma. This particular immunoassay utilizes the quantitative technique of a "Sandwich" Enzyme-Linked Immunosorbent Assay (ELISA) where the target protein (antigen) is bound in a "sandwich" format by the primary capture antibodies coated to each well-bottom and the secondary detection antibodies added subsequently by the investigator. The capture antibodies coated to the bottom of each well are specific for a particular epitope on Human G-CSF while the user-added detection antibodies bind to epitopes on the captured target protein. Amid each step of the procedure, a series of wash steps must be performed to ensure the elimination of non-specific binding between proteins to other proteins or to the solid phase. After incubation and "sandwiching" of the target antigen, a peroxidase enzyme is conjugated to the constant heavy chain of the secondary antibody (either covalently or via Avidin/Streptavidin-Biotin interactions), allowing for a sensitive luminescent reaction to ensue upon substrate addition. When the Peroxide Enhancer solution is added, the reaction catalyzed by peroxidase yields light that is representative of the antigen concentration. After a brief incubation, the microplate can be read with a luminometer, allowing for generation of a standard curve and subsequent determination of protein concentration!!Background/Introduction: Human G-CSF, also known as Granulocyte Colony-Stimulating Factor, is a 207 amino acid cytokine protein encoded by the CSF3 gene located at locus 17q11.2-17q12 on chromosome 17. After initial synthesis of the hG-CSF via translation, the protein is proteolytically processed and cleaved, thus separating the 29 residue signal sequence from the 178 residue mature G-CSF peptide and allowing it to properly fold. Human G-CSFs are cytokines that act in hematopoiesis by controlling the production, differentiation and function of 2 related white cell populations of the blood, the granulocytes and the monocytes-macrophages-this monomeric CSF induces granulocytes.
Product Categories/Family for GM-CSF clia kit	Luminometer Sandwich ELISA

NCBI AND UNIPROT INFORMATION

NCBI GI #	183364
NCBI GeneID	1437
UniProt Accession #	P04141
NCBI Official Full Name	GM-CSF
NCBI Official Synonym Full Names	colony stimulating factor 2
NCBI Official Symbol	CSF2
NCBI Official Synonym Symbols	CSF; 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/human-clia-kits/gm-csf/318530>