

Human M-CSF/CSF1 ELISA Kit | M-CSF/CSF1 elisa kit

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CATALOG #
AAA258434

REACTIVITY
Human

PRODUCT SYNONYMS

M-CSF/CSF1; Human M-CSF/CSF1 ELISA Kit; M-CSF ELISA Kit; Human; colony stimulating factor 1 (macrophage); CSF-1 ELISA Kit; MCSF ELISA Kit; M-CSF/CSF1 elisa kit

PRODUCT SPECIFICATIONS

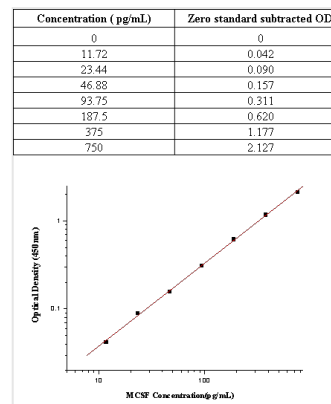
Reactivity	Human
Specificity	For the quantitative determination of Human M-CSF/CSF1 concentration in serum, cell culture supernates and urine.
Assay Type	Solid Phase Sandwich ELISA (quantitative)
Sample Types	Serum, Cell supernatant, Urine
Detection Range	11.72-750pg/mL
Sensitivity	11.72pg/mL
Conjugation	HRP
Interference	Preparations of the factors listed below at 50ng/mL in a mid-range recombinant human MCSF control were assayed for interference. No significant interference was observed.
Materials Provided	1. 96 well microplate coated with Capture Antibody 2. Detection Antibody conjugated to HRP 3. Standards 4. Wash Buffer Concentrate 5. Dilution Buffer Concentrate 6. Color Reagent A 7. Color Reagent B 8. Stop Solution

IMAGES

Recombinant human			
IL-1	IL-2	IL-33	IL-10
IL-8	TNF- α	IL-4	IL-6
IFN- γ	MIP-1 β	TIMP-1	TIMP-2
GM-CSF	SCF	PDGF	VEGF
EGF	FGF6	FGF10	FGF acidic
FGF basic	FLT3	HB-EGF	HGF
pPIC2a-IGF1	pPIC2a-IGF2	KGF	MCSFR
NRG1-Alpha	PDGFR α	PDGFR β	VEGF121
VEGF165	VEGFD	PIGF / PLGF	
Recombinant mouse			
FLT3	VEGFA	β -NGF	
Recombinant rat			
GM-CSF			

Application Data

This assay recognizes both recombinant and natural Human MCSF. The factors listed below were prepared at 50ng/mL in dilution buffer and assayed for cross-reactivity. No cross-reactivity was observed.



Standard Curve (Sample)

This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.

ADDITIONAL INFORMATION

Related Product Information for M-CSF/CSF1 elisa kit	This M-CSF ELISA Kit, Human is an enzyme-linked immunosorbent assay for the quantitative measurement of Human M-CSF protein in Serum, Cell supernatant, Urine. It contains recombinant Human M-CSF, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use. Background: Macrophage colony-stimulating factor 1, also known as CSF-1, M-CSF, Lanimostim and CSF1, is a single-pass membrane protein which is disulfide-linked as a homodimer or heterodimer. Granulocyte/macrophage colony-stimulating factors 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. M-CSF/CSF-1 is known to facilitate monocyte survival, monocyte-to-macrophage conversion, and macrophage proliferation. M-CSF/CSF-1 is a secreted cytokine which influences hemopoietic stem cells to differentiate into macrophages or other related cell types. It binds to the Colony stimulating factor 1 receptor. M-CSF/CSF-1 may also be involved in development of the placenta. The active form of M-CSF/CSF-1 is found extracellularly as a disulfide-linked homodimer, and is thought to be produced by proteolytic cleavage of membrane-bound precursors. M-CSF/CSF-1 induces cells of the monocyte/macrophage lineage. It also plays a role in immunological defenses, bone metabolism, lipoproteins clearance, fertility and pregnancy. Upregulation of M-CSF/CSF-1 in the infarcted myocardium may have an active role in healing not only through its effects on cells of monocyte/macrophage lineage, but also by regulating endothelial cell chemokine expression.
References	Pandit J. et al., 1992, Science. 258: 1358-62. Tokai M. et al., 2000, J Bacteriol. 182 (10): 2865-8. Fan X. et al., 2001, Am J Physiol Endocrinol Metab. 280 (1): E103-11. Frangogiannis NG. et al., 2003, Am J Physiol Heart Circ Physiol. 285 (2): H483-92. Cupp JS. et al., 2007, Am J Surg Pathol. 31 (6): 970-6.

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.