

ARG82291 Human M-CSF ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG82291 Human M-CSF ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human M-CSF in serum, plasma and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	Not react with Human SCF and rarely react with Mouse M-CSF.
Target Name	M-CSF
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	7.8 pg/ml
Sample Type	Serum, plasma and cell culture supernatants.
Standard Range	15.6 - 1000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: less than 8.5% Inter-Assay CV: less than 8.5%
Alternate Names	Macrophage colony-stimulating factor 1; CSF-1; Lanimostim; M-CSF; MCSF

Application Instructions

Assay Time ~ 3.5 hours

Properties

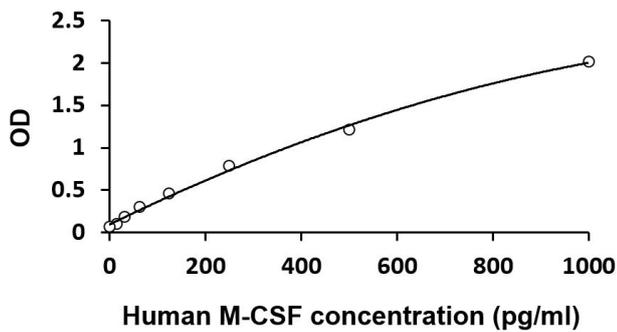
Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	CSF1
Gene Full Name	colony stimulating factor 1 (macrophage)
Background	The protein encoded by this gene is a cytokine that controls the production, differentiation, and function of macrophages. The active form of the protein is found extracellularly as a disulfide-linked homodimer, and is thought to be produced by proteolytic cleavage of membrane-bound precursors. The encoded protein may be involved in development of the placenta. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2011]

Function	Cytokine that plays an essential role in the regulation of survival, proliferation and differentiation of hematopoietic precursor cells, especially mononuclear phagocytes, such as macrophages and monocytes. Promotes the release of proinflammatory chemokines, and thereby plays an important role in innate immunity and in inflammatory processes. Plays an important role in the regulation of osteoclast proliferation and differentiation, the regulation of bone resorption, and is required for normal bone development. Required for normal male and female fertility. Promotes reorganization of the actin cytoskeleton, regulates formation of membrane ruffles, cell adhesion and cell migration. Plays a role in lipoprotein clearance. [UniProt]
Highlight	Related products: M-CSF antibodies ; M-CSF ELISA Kits ; M-CSF recombinant proteins ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	N- and O-glycosylated. Glycosylation and proteolytic cleavage yield different soluble forms. One high molecular weight soluble form is a proteoglycan containing chondroitin sulfate. O-glycosylated with core 1 or possibly core 8 glycans. Isoform 1 is N- and O-glycosylated. Isoform 3 is only N-glycosylated. [UniProt]
Cellular Localization	Cell membrane; Single-pass type I membrane protein. Processed macrophage colony-stimulating factor 1: Secreted, extracellular space. [UniProt]

Images



ARG82291 Human M-CSF ELISA Kit standard curve image

ARG82291 Human M-CSF ELISA Kit results of a typical standard run with optical density reading at 450 nm.
