



Human Macrophage Inflammatory Protein-1 α , MIP-1 α ELISA kit

Product Code	CSB-E04662h
Abbreviation	CCL3
Protein Biological Process 1	Immunity
Uniprot No.	P10147
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates
Detection Range	39 pg/ml - 2500 pg/ml
Sensitivity	9.75 pg/ml
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Immunology
Gene Names	CCL3
Tag Info	quantitative
Protein Description	Sandwich

Description

The product CSB-E04662h is a sandwich ELISA kit developed to measure concentrations of human macrophage inflammatory protein-1 α (MIP-1 α) in serum, plasma, or tissue homogenates. This assay uses the sandwich enzyme immunoassay technique in combination with the enzyme-substrate chromogenic reaction to quantify the analyte in the sample. The color develops positively to the amount of MIP-1 α in samples. The color intensity is measured at 450 nm via a microplate reader.

MIP-1 α , also called CCL3, is a pro-inflammatory chemokine expressed constitutively in the bone marrow, including by osteoblasts. It is induced during inflammation. CCL3 is a chemotactic cytokine crucial for inflammatory cell recruitment in homeostatic and pathological conditions. In addition to its proinflammatory activities, CCL3 negatively regulates the proliferation of hematopoietic stem/progenitor cells (HSPCs) in the bone marrow (BM). CCL3 and its receptor CCR1 are reported to mediate the bone remodeling that occurs during orthodontic tooth movement, and may also regulate osteoclastogenesis



in osteomyelitis. CCL3 might stimulate cancer progression by promoting leukocyte accumulation, angiogenesis, and tumor growth.

Msd

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