

[Go to Product page](#)

Datasheet for ABIN6720382

MIF ELISA Kit

Overview

Quantity:	1 kit
Target:	MIF
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	156 pg/mL - 10000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (heparin), Saliva, Serum, Urine
Analytical Method:	Quantitative
Detection Method:	Colorimetric

Characteristics:

Synonyms: GIF, GLIF, Glycosylation inhibiting factor, L dopachrome isomerase, L dopachrome tautomerase, Macrophage migration inhibitory factor, Macrophage migration inhibitory factor (glycosylation inhibiting factor), MMIF, Phenylpyruvate tautomerase

Background: Macrophage migration inhibitory factor(MIF) is a protein which in humans is encoded by the MIF gene.^{1, 2} This gene is located to human chromosome 22q11.2.³ It is remarkably small, it has 3 exons separated by introns of only 189 and 95 bp, and covers less than 1 kb.⁴ This gene encodes a lymphokine that may be involved in cell-mediated immunity, immunoregulation, and inflammation.⁵ MIF plays a role in the regulation of macrophage

Product Details

function in host defense through the suppression of anti-inflammatory effects of glucocorticoids. This lymphokine and the JAB1 protein might form a complex in the cytosol near the peripheral plasma membrane, which may possibly indicate a role in integrin signaling pathways. MIF also plays a central role in the toxic response to endotoxemia and possibly septic shock. Macrophage migration inhibitory factor has been reported to interact with COP9 constitutive photomorphogenic homolog subunit 5, CD74, BNIPL, and CXCR4.

Gene Name: MIF

Production: Natural and recombinant human MIF. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: E.coli, Immunogen sequence: P2-A115

Target Details

Target:	MIF
Alternative Name:	MIF (MIF Products)
Gene ID:	4282
NCBI Accession:	NP_002406
UniProt:	I4AY87
Pathways:	Regulation of Systemic Arterial Blood Pressure by Hormones , Positive Regulation of Immune Effector Process , Production of Molecular Mediator of Immune Response , Regulation of Carbohydrate Metabolic Process , Feeding Behaviour , Smooth Muscle Cell Migration , Negative Regulation of intrinsic apoptotic Signaling

Application Details

Application Notes:	<p>Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 10000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 312pg/mL, 156pg/mL human MIF standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernates, serum, plasma (heparin), saliva or urine to each empty well. It is recommended that each human MIF standard solution and each sample be measured in duplicate.</p> <p>Blood Product Anticoagulant: Heparin Sodium</p> <p>ELISA Dilution: 156pg/mL-10000pg/mL</p>
Sample Volume:	100 µL

Application Details

Plate: Pre-coated

Restrictions: For Research Use only

Handling

Storage: RT, 4 °C, -20 °C

Storage Comment: Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.