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### MIF Protein (AA 2-115) (His tag)

**Images** 



#### Overview

Quantity:	100 μg
Target:	MIF
Protein Characteristics:	AA 2-115
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MIF protein is labelled with His tag.

#### **Product Details**

Purpose:	Human MIF Protein
Sequence:	Pro2-Ala115
Characteristics:	Recombinant Human MIF Protein is expressed from HEK293 with His tag at the C-Terminus.It contains Pro2-Ala115.
Purity:	> 95 % as determined by Tris-Bis PAGE
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.

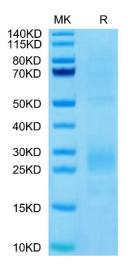
#### **Target Details**

Target:	MIF
Alternative Name:	MIF (MIF Products)

#### **Target Details**

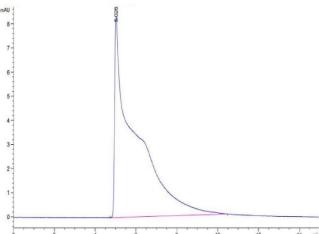
rarget Details	
Background:	Macrophage migration inhibitory factor (MIF) is a pleiotropic cytokine with chemokine-like functions that increasingly is being studied in different aspects of cardiovascular disease. MIF was first identified as a proinflammatory and pro-survival mediator within the immune system, and a second structurally related MIF family member, D-dopachrome tautomerase (a.k.a. MIF-2), was reported recently.
Molecular Weight:	13.44 kDa. Due to glycosylation, the protein migrates to 25-30 kDa based on Tris-Bis PAGE result.
UniProt:	P14174
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	
Restrictions:	For Research Use only
Handling	

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu$ g/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from $0.22\mu m$ filtered solution in PBS ( pH $7.4$ ). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



#### **SDS-PAGE**

**Image 1.** Human MIF on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



## Size-exclusion chromatography-High Pressure Liquid Chromatography

**Image 2.** The purity of Human MIF is greater than 95 % as determined by SEC-HPLC.