Datasheet for ABIN6700254

MIF Protein

2 Images

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Overview

Quantity:	100 µg
Target:	MIF
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	Human Migration Inhibitory Factor Recombinant Protein
Purification:	Migration Inhibitory Factor purity was determined to be greater than 97% as determined by HpLC, analysis by UV-Spectroscopy at 280nm, and by reducing and non-reducing SDS-pAGE.
Purity:	97,00%
Endotoxin Level:	Measured by LAL is typically ≤ 1 EU/µg protein.
Biological Activity Comment:	The activity was measured in an agarose microdroplet assay using human U937 and production of IL-8 by human PBMCs.

Target Details

Target:	MIF
Alternative Name:	MIF (MIF Products)
Background:	Synonyms: Glycosylation-inhibiting factor (GIF), L-dopachrome isomerase, L-dopachrome tautomerase, Phenylpyruvate tautomerase

Target Details

	Background: Migration Inhibitory Factor (MIF) is a pro-inflammatory cytokine that acts on fibroblasts by inducing IL-1, IL-8 and MMP expression. MIF stimulates NO production and TNF-α release following IFNγ-activation of macrophages. Recombinant human MIF is a non-glycosylated protein, containing 115 amino acids, with a molecular weight of 12.5 kDa.
UniProt:	P07141
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:	Other: User Optimized Application_Note: Migration Inhibitory Factor Recombinant Protein has been tested by SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti-Migration Inhibitory Factor in immunological assays.
Comment:	Suggested_Applications: Cellular Assay Other_Performance_Data:
Restrictions:	For Research Use only

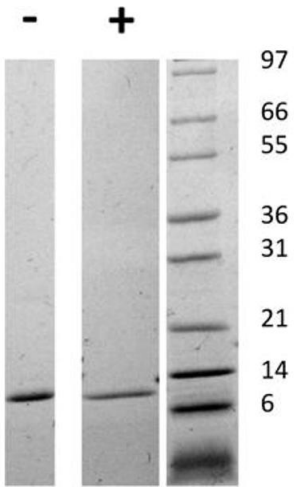
Handling

Format:	Lyophilized
Reconstitution:	Reconstitution_Buffer: Restore with deionized water (or equivalent) Reconstitution_Volume: 100 µL
Concentration:	0.1 mg/mL
Buffer:	Buffer: 0.01 M Sodium Phosphate, pH 7.5 Stabilizer: None
Preservative:	Without preservative
Storage:	-20 °C
Storage Comment:	Store vial at -20° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and

Handling

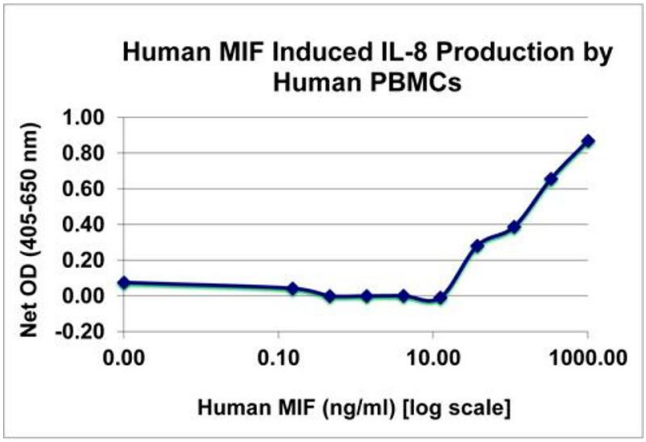
	freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.
Expiry Date:	6 months

Images



SDS-PAGE

Image 1. SDS-PAGE of Human MigSDS-PAGE of Ration Inhibitory Factor Recombinant Protein SDS-PAGE of Human Migration Inhibitory Factor Recombinant Protein. Lane 1: 1 µg Human MIF in non-reducing conditions . Lane 2: 1 µg Human MIF in reducing conditions (+). Lane 3: Molecular weight marker. Human MIF has a predicted MW of 12.5 kDa.



SDS-PAGE

Image 2. SDS-PAGE of Human MigSDS-PAGE of Ration Inhibitory Factor Recombinant Protein Bioactivity of Human Migration Inhibitory Factor Recombinant Protein. Human PBMCs were cultured with 0 to 1000 ng/mL Human MIF. Production of IL-8 was measured via ELISA after 24 hours and the linear portion of the curve was us used to calculate the ED50. The ED50 of Human MIF is 88 - 132 ng/mL.