

## GFH153 Recombinant Human MIF

### Description

Migration Inhibitory Factor (MIF) is a pro-inflammatory lymphokine that functions during cell-mediated immunity. MIF promotes fibroblast migration by inducing interleukin-1 (IL-1), interleukin-8 (IL-8), and matrix metalloproteinase (MMP) expression. In interferon- $\gamma$ -activated macrophages, MIF stimulates nitric oxide (NO) production and Tumor Necrosis Factor  $\alpha$  (TNF- $\alpha$ ) secretion.

<b>Length</b>	115 aa
<b>Molecular Weight</b>	12.5 kDa
<b>Source</b>	E. coli
<b>Accession Number</b>	P14174
<b>Purity</b>	$\geq$ 95% determined by reducing and non-reducing SDS-PAGE

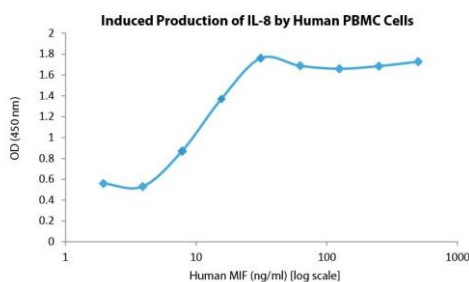
### Specifications

<b>Alternative Names</b>	Migration Inhibitory Factor, GIF, phenylpyruvate tautomerase, glycosylation-inhibiting factor, L-dopachrome tautomerase
<b>Biological Activity</b>	Human MIF is fully biologically active when compared to standard. The activity is determined by the ability to produce IL-8 by human PBMC cells.
<b>Endotoxin Level</b>	$\leq$ 1.00 EU/ $\mu$ g as measured by kinetic LAL
<b>Formulation</b>	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)
<b>AA Sequence</b>	MPMFIVNTNV PRASVPDGFLL SELTQQLAQA TGKPPQYIAV HVVPDQLMAF GGSSEPCALC SLHSIGKIGG AQRNSYSKLL CGLLAERLRI SPDRVYINYY DMNAANVGWN NSTFA

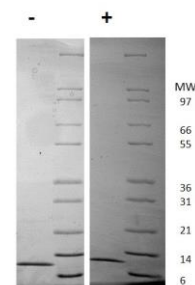
### Preparation and Storage

<b>Reconstitution</b>	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/ml, which can be further diluted into other aqueous solutions.
<b>Stability and Storage</b>	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed.

### Data



Induced IL-8 production by human PBMC cells when cultured with Human MIF.



Non-reducing (-) and reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue. 1  $\mu$ g of protein was loaded in each lane. Human MIF has a predicted Mw of 12.5 kDa.