



Synonym

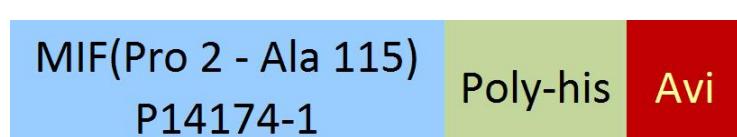
MIF, GLIF, MMIF, GIF

Source

Biotinylated Human MIF, His,Avitag(MIF-H82E7) is expressed from human 293 cells (HEK293). It contains AA Pro 2 - Ala 115 (Accession # [P14174-1](#)).

Predicted N-terminus: Pro 2

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 16.0 kDa. The protein migrates as 20 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in 25 mM MES, 500 mM NaCl, pH6.5 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

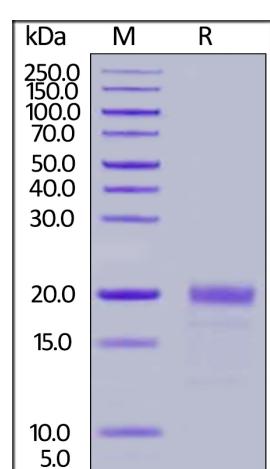
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Biotinylated Human MIF, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

Background

Macrophage migration inhibitory factor(MIF) is also known as Glycosylation-inhibiting factor(GIF), L-dopachrome isomerase, L-dopachrome tautomerase, Phenylpyruvate tautomerase. Interacts with CXCR2 extracellular domain, CD74 extracellular domain, COPS5 and BNIPL. The expression of MIF at sites of inflammation suggests a role as mediator in regulating the function of macrophages in host defense. Counteracts the anti-inflammatory activity of glucocorticoids.

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Biotinylated Human MIF Protein, His,Avitag™

Catalog # MIF-H82E7



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Has phenylpyruvate tautomerase and dopachrome tautomerase activity (in vitro), but the physiological substrate is not known. It is not clear whether the tautomerase activity has any physiological relevance, and whether it is important for cytokine activity.

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