

Macrophage Migration Inhibitory Factor Human Recombinant (Active)

Item Number	rAP-2369
Synonyms	Phenylpyruvate tautomerase, Glycosylation-inhibiting factor, GIF, MMIF, MIF.
Description	MIF human Recombinant was cloned into an E.coli expression vector and was purified to apparent homogeneity by using conventional column chromatography techniques. Macrophage Inducing Factor Human Recombinant is a single, non-glycosylated, polypeptide chain containing 115 amino acids and having a
Uniprot Accession Number	P14174
Amino Acid Sequence	MPMFIVNTNVPRAVDPDGLSELTQQLAQATGKPPQYIAVHVVPDQLMAFGGSSEPCALC-SLHSGIKIGGAQNRYSKLLCGLLAERLRISPDRVYINYYDMNAANVGWNNSTFA.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized MIF-protein although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution MIF-protein should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Formulation and Purity	MIF-Protein was lyophilized from 10mM sodium phosphate buffer pH-7.5. Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized MIF-Protein in sterile 18MΩ-cm H ₂ O at a concentration between 0.1mg-1mg per 1ml.
Biological Activity	Human PBMCs were cultured with 0 to 1000ng/ml Human MIF. Production of IL-8 was measured via ELISA after 24 hours. The ED ₅₀ which was found to be 88-132ng/ml.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**