

**Product:** Macrophage Inflammatory Protein-1 alpha, Human, Recombinant  
**Catalog #:** 11-MIP-1AH  
**Amount:** 5 µg

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**DESCRIPTION:** Recombinant Human MIP-1alpha produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 70 amino acids and having a molecular mass of 7820 Dalton. rHuMIP-1alpha is purified by proprietary chromatographic techniques.  
The sequence of the first five N-terminal amino acids was determined and was found to be, Ala-Ser-Leu-Ala-Ala.

**SOURCE:** *Escherichia coli* expression system

**MOLECULAR WEIGHT:** 7.8 kDa

**PURITY:** > 99.0% as determined by:  
(a) Analysis by RP-HPLC.  
(b) Anion-exchange FPLC.  
(c) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel.

**ENDOTOXIN:** Less than 0.1 ng/µg (IEU/µg) of rHuMIP-1alpha.

**DIMERS & AGGREGATES:** Less than 1% as determined by silver-stained SDS-PAGE gel analysis.

**PROTEIN CONTENT:** Protein quantitation was carried out by two independent methods:  
1. UV spectroscopy at 280 nm using the absorbency value of 0.9 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).  
2. Analysis by RP-HPLC, using a calibrated solution of MIP-1alpha as a Reference Standard.

**FORM:** Purified.

**CONCENTRATION:** 0.1 mg/ml

**STORAGE:** -20°C (aliquot), avoid freezing and thawing cycles

**BIOLOGICAL ACTIVITY:** rHuMIP-1alpha is fully biologically active when compared to standard. The Activity is calculated by the ability of chemo-attraction of Human monocytes using 1-10 ng/ml.

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