

## Product Data Sheet

Product Name: MIG Human  
 Cat. No.: GP21171  
 Batch No.: 1

### Product Data

Purity >98% Source Escherichia Coli.  
 Physical Appearance solid Shipping Condition Shipped at Room temp.  
 Synonyms Small inducible cytokine B9; CXCL9; Gamma INF-induced monokine; MIG; chemokine (C-X-C motif) ligand 9; CMK; Humig; SCYB9; c10; monokine induced by gamma-INF.  
 Amino Acid Sequence TPVVRKGRCSICSTNQGTIHLQSLKDLKQFAPSPSCEKIEIATLKNQVQTCCLNPDSADVKELIKKWEKQVSQKKKQKNGKKHQQKKVLRKSRQKI  
 Solubility It is recommended to reconstitute the lyophilized MIG in sterile 18MΩ-cm H2O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.  
 Formulation Lyophilized from a 0.2μm filtered concentrated (1.0mg/ml) solution in 20mM PB, pH 7.4, 50mM NaCl.

### Introduction

Chemokine (C-X-C motif) ligand 9 (CXCL9) is a small cytokine belonging to the CXC chemokine family that is also known as Monokine induced by gamma INF (MIG). CXCL9 is a T-cell chemoattractant, which is induced by IFN-γ. It is closely related to two other CXC chemokines called CXCL10 and CXCL11, whose genes are located near the gene for CXCL9 on human chromosome 4. CXCL9, CXCL10 and CXCL11 all elicit their chemotactic functions by interacting with the chemokine receptor CXCR3.

### Biological Activity

Determined by its ability to chemoattract human peripheral blood T-Lymphocytes using a concentration range of 10-100ng/ml corresponding to a Specific Activity of 10,000-100,000IU/mg.

### Stability

Lyophilized MIG although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution CXCL9 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.

### Background

MIG (monokine induced by gamma-INF) Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 103 amino acids and having a molecular mass of 11700 Dalton. The MIG is purified by proprietary chromatographic techniques.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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