

Recombinant Mouse Monokine induced by Interferon gamma (rm MIG / CXCL9)

Synonyms: Small inducible cytokine B9, Gamma interferon-induced monokine, chemokine (C-XC motif) ligand 9, CMK, Humig, SCYB9, crg-10, M119

Introduction: MIG is a small cytokine belonging to the CXC chemokine family. MIG is a T-cell chemoattractant, which is induced by IFN- γ . It is closely related to two other CXC chemokines called IP-10 and I-TAC, whose genes are located near the gene for MIG on human chromosome 4. MIG, IP-10 and I-TAC elicit all their chemotactic functions by interacting with the chemokine receptor CXCR3.

Description: Recombinant mouse MIG produced in *E.Coli* is a single, non-glycosylated, polypeptide chain containing 105 amino acids and having a molecular mass of 12.2 Dalton. Rm MIG is purified by proprietary chromatographic techniques.

Source: *Escherichia Coli*.

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: Filtered (0.2 μ m) and lyophilized from a concentrated (0.5mg/ml) solution in 20mM PB, pH7.4 and 100mM NaCl.

The sample size of 1 μ g contains Trehalose 5% (w/vol) for better recovery

Solubility: It is recommended to reconstitute the lyophilized rm MIG in sterile H₂O not less than 100 μ g/ml which can then be further diluted to other aqueous solutions.

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

Purity: Greater than 97.0% as determined by RP-HPLC and by SDS-PAGE

Amino acid Sequence: TLVIRNARCS CISTSRTIH YKSLKDLKQF APSPNCNKTE IIATLKNQDQ
TCLDPDSANV KKLKKEWEKK INQKKKQKRG KKHQKNMKNR KPKTPQSRRR SRKTT.

Biological Activity: The activity is calculated by the ability to chemoattract of human mature dendritic cells using a concentration of 0.1 - 1 ng/ml.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	5 μ g	Cat.N°	12343260
<i>medium</i>	20 μ g	Cat.N°	12343264
<i>large</i>	100 μ g	Cat.N°	12343266

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Gladiolenweg 2; 26169 Friesoythe; Germany
phone:+49-(0)4491-400997, fax:+49-(0)4491-400998, info@immunotools.com
www.immunotools.com