

Product Data Sheet

Cat # RP-1039

Recombinant Mouse MIG (CXCL9)

**Size:** 5 ug

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 interferon (MIG). CXCL9 is a T-cell chemo attractant, which is induced by IFN- $\gamma$ . 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.

**Usage:**

This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals

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**Source:** *Escherichia Coli*. MIG (monokine induced by gamma-interferon ) Mouse Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 105 amino acids and having a molecular mass of 12208 Dalton. The MIG is purified by proprietary chromatographic techniques. The CXCL9 was lyophilized from a concentrated (1mg/ml) solution in water containing no additives.

**Applications and Suggested Dilutions:** Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE. It is recommended to reconstitute the lyophilized MIG in sterile 18M $\Omega$ -cm H<sub>2</sub>O not less than 100 $\mu$ g/ml, which can then be further diluted to other aqueous solutions. Users must optimize the appropriate concentration and conditions for each assay.

**Storage and Stability:** Lyophilized MIG although stable at room temperature for 3 weeks, should be stored desiccated below -18 $^{\circ}$ C. Upon reconstitution CXCL9 should be stored at 4 $^{\circ}$ C between 2-7 days and for future use below -18 $^{\circ}$ C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4 $^{\circ}$ C for ~1 week or aliquots in suitable size and store at -20 $^{\circ}$ C for long term storage. **Please prevent freeze-thaw cycles.**

**Biological Activity:** The Activity is calculated by the ability to chemoattract Human lymphocytes using a concentration of 0.1-1 ng/ml.