

**Recombinant Murine Monokine Induced by
Interferon-gamma/CXCL9
(rMuMIG/CXCL9)
PrimeGene Technical Data Sheet**

Catalog Number:	221-09
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 12.2 kDa, a single non-glycosylated polypeptide chain containing 105 amino acids.
Quantity:	5µg/20µg/1000µg
AA Sequence:	TLVIRNARCS CISTSRGTIH YKSLKDLKQF APSPNCNKTE IIATLKNGDQ TCLDPDSANV KKLMKEWEKK INQKKKQKRG KKHQKNMKNR KPKTPQSRRR SRKTT
Purity:	> 95 % by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human lymphocytes is in a concentration range of 0.1-1.0 ng/ml.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in 2 × PBS, pH 7.4.
Endotoxin:	Less than 1EU/µg of rMuMIG/CXCL9 as determined by LAL method.
Reconstitution:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
Shipping:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">● 12 months from date of receipt, -20 to -70 °C as supplied.● 1 month, 2 to 8 °C under sterile conditions after reconstitution.● 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Usage:	This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.

Murine Monokine Induced by Interferon-gamma/CXCL9

CXCL9 belongs to the CXC chemokine family and also known as Monokine induced by gamma interferon (MIG). It is a T-cell chemoattractant induced by IFN-γ. CXCL9 is closely related to two other CXC chemokines called CXCL10 and CXCL11, additionally they all elicit their chemotactic functions by interacting with the chemokine receptor CXCR3. It is a cytokine that affects the growth, movement, or activation state of cells that participate in immune and inflammatory response and chemotactic for activated T-cells. Recombinant murine CXCL9 contains 105 amino acids which is a single non-glycosylated polypeptide chain. Furthermore, The murine CXCL9 shares 75 % and 88 % a.a. sequence identity with human and rat CXCL9.