

Recombinant Murine Monokine Induced by Interferon-gamma/CXCL9 (rMuMIG/CXCL9)

ChemWhat Technical Data Sheet (TDS)

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| 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: | ChemWhat Limited in UK offers this branded product for research, development 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.