

Recombinant Murine Monokine Induced by Interferon-gamma/CXCL9

Information

Gene ID	17329
Accession #	P18340
Alternate Names	Gamma-interferon-induced Monokine, Small-inducible Cytokine B9
Source	Escherichia coli.
M.Wt	Approximately 12.2 kDa, a single non-glycosylated polypeptide chain containing 105 amino acids.
AA Sequence	TLVIRNARCS CISTSRGTIH YKSLKDLKQF APSPNCNKTE IIATLKNGDQ TCLDPDSANV KKLMKEWEKK INQKKKQKRG KKHQKNMKNR KPKTPQSRRR SRKTT
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles - 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
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 2 × PBS, pH 7.4.
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.
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.
Shipping Condition	Gel pack.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Components and Storage

Components	5µg	100µg	500µg
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- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 3 months, -20 to -70 °C under sterile conditions after reconstitution

Quality Control

Purity	> 95 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/μg of rMuMIG/CXCL9 as determined by LAL method.

Description

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.

Reference

1. Lee HH, Farber JM. 1996. Cytogenet Cell Genet. 74:255-8
2. O'Donovan N, Galvin M, Morgan JG. 1999. Cytogenet Cell Genet. 84:39-42
3. Tensen CP, Flier J, Van Der Raaij-Helmer EM, et al. 1999. J Invest Dermatol. 112:716-22
4. Adamska I, Roobol-Boza M, Lindahl M, et al. 1999. Eur J Biochem. 260:453-60.

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