Recombinant Mouse Cxcl9 protein

Cat. No. Cxcl9-612M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Cxcl9 protein was expressed in Escherichia coli.
Species	Mouse
Source	E.coli
ProteinLength	105
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.
Form	Lyophilized from a 0.2μm filtered concentrated solution in 2 × PBS, pH 7.4.
Bio-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.
Molecular Mass	Approximately 12.2 kDa, a single non-glycosylated polypeptide chain containing 105

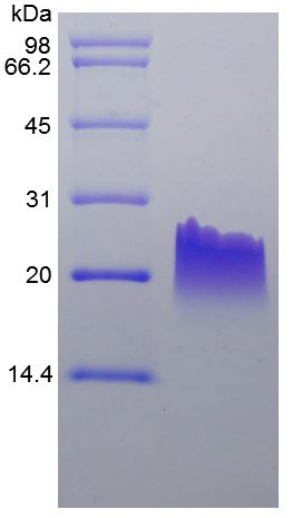
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	amino acids.
AA Sequence	TLVIRNARCSCISTSRGTIHYKSLKDLKQFAPSPNCNKTEIIATLKNGDQTCLDPDSAN VKKLMKEWEKKINQKKKQKRGKKHQKNMKNRKPKTPQSRRRSRKTT
Endotoxin	Less than 1 EU/μg of rMuMIG/CXCL9 as determined by LAL method.
Purity	>95% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
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 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	Cxcl9
Official Symbol	Cxcl9
Synonyms	CXCL9; chemokine (C-X-C motif) ligand 9; C-X-C motif chemokine 9; M119; protein m119; small-inducible cytokine B9; gamma interferon-induced monokine; gamma-interferon-induced monokine; monokine induced by gamma interferon; monokine induced by interferon-gamma; small inducible cytokine B subfamily (Cys-X-Cys), member 9; CMK; Mig; MuMIG; Scyb9; crg-10; BB139920;

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Gene ID	17329
mRNA Refseq	NM_008599
Protein Refseq	NP_032625
UniProt ID	P18340
SDS-PAGE of Cxcl9-612M	

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA