

CXCL9

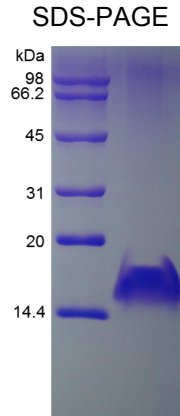
Recombinant Human CXCL9/MIG

Catalog No.	CRMX00A CRMX00B CRMX00C	Quantity:	5 µg 20 µg 1.0 mg
Alternate Names:	Small inducible cytokine B9, CXCL9, Gamma interferon-induced monokine, chemokine (C-X-C motif) ligand 9, CMK, Humig, SCYB9, crg-10, monokine induced by gamma-interferon.		
Description:	<p>Recombinant Human CXCL9/MIG is a single non-glycosylated polypeptide chain containing 103 amino acids.</p> <p>Background: CXCL9, a member of the α subfamily of chemokines that lack the ELR domain, was initially identified as a lymphokine activated gene in mouse macrophages. The CXCL9 gene is induced in macrophages and in primary glial cells of the central nervous system specifically in response to IFN-gamma. CXCL9 has been shown to be a chemoattractant for activated T-lymphocytes and TIL but not for neutrophils or monocytes. The human CXCL9 cDNA encodes a 125 amino acid residue precursor protein with a 22 amino acid residue signal peptide that is cleaved to yield a 103 amino acid residue mature protein. CXCL9 has an extended carboxy-terminus containing greater than 50% basic amino acid residues and is larger than most other chemokines. A chemokine receptor (CXCR3) specific for CXCL9 and IP-10 has recently been cloned and shown to be highly expressed in IL-2-activated T-lymphocytes.</p>		
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.		
Gene ID:	4283		
Source:	<i>E. coli</i>		
Molecular Weight:	11.7 kDa		
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 7.4 + 50 mM NaCl.		
Purity:	>97% by SDS-PAGE and HPLC		
Endotoxin Level:	Less than 1EU/µg of rHuMIG/CXCL9 as determined by LAL method.		
Biological Activity:	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human peripheral blood T-lymphocytes is in a concentration range of 10-100 ng/ml.		
Amino Acid Sequence:	TPVVRKGRCS CISTNQGTIH LQSLKDLKQF APSPSCEKIE IATLKNQVQ TCLNPDSADV KELIKKWEKQ VSQKKKQKNG KKHQKKKVLK VRKSQRSRQK KTT		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/mL. Further dilutions should be made in appropriate buffered solutions.		



Storage & Stability:

Stable at 2-8°C, but best kept desiccated -20°C. Upon reconstitution, stable for up to 1 week at 2-8°C. For longer term, store in working aliquots below -20°C. **Avoid repeated freeze/thaw cycles.**



NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

