

CXCL9 Protein, Human, Recombinant (Active)

General Information

Synonyms:	SCYB9;MIG;CXCL9;C-X-C motif chemokine 9;Gamma-interferon-induced monokine;CMK; Monokine induced by interferon-gamma (HuMIG; MIG);Small-inducible cytokine B9
Protein Construction:	Thr23-Thr125
Species:	Human
Expression Host:	E. coli
Accession:	Q07325
Molecular Weight:	11.7 kDa (Predicted)
AA Sequence:	TPVVRKGRCS CISTNQGTIH LQSLKDLKQF APSPSCEKIE IIATLKNQVQ TCLNPDSADV KELIKKWEKQ VSQKKKQKNG KKHQKKKVLK VRKSQRSRQK KTT

QC Testing

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.
Purity:	> 97% as determined by SDS-PAGE; > 97% as determined by HPLC
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 μm filtered concentrated solution in 20 mM PB, pH 7.4, 50 mM NaCl.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water or aqueous buffer containing 0.1 % BSA. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

CXCL9 is a T-cell chemoattractant induced by IFN-γ belonging to the CXC chemokine family and it is also known as Monokine induced by gamma interferon (MIG). CXCL9 is closely related to two other CXC chemokines called CXCL10 and CXCL11 and they all elicit their chemotactic functions by interacting with the chemokine receptor CXCR3. CXCL9

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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 human CXCL9 contains 103 amino acids which is a single non-glycosylated polypeptide chain. The human CXCL9 shares 75 % and 67 % a.a. sequence identity with mouse and rat CXCL9.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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