Datasheet

Cat. No. P1213

Recombinant Human MIG/CXCL9

Information

Gene ID	4283
Accession #	Q07325
Alternate Names	Monokine-like Protein
Source	*Escherichia coli.*
M.Wt	Approximately 11.7 kDa, a single non-glycosylated polypeptide chain containing 103 amino acids.
AA Sequence	TPVVRKGRCS CISTNQGTIH LQSLKDLKQF APSPSCEKIE IIATLKNGVQ TCLNPDSADV KELIKKWEKQ VSQKKKQKNG KKHQKKKVLK VRKSQRSRQK KTT
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 20 mM PB, pH 7.4, 50 mM NaCl.
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 peripheral blood T-lymphocytes is in a concentration range of 10-100 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	5 μg	100 μg	500 μg
Recombinant Human MIG/CXCL9	5 μg	100 μg	500 μg

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- 3 months, -20 to -70 °C under sterile conditions after reconstitution.

Quality Control

Purity	> 97 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/μg of rHuMIG/CXCL9 as determined by LAL method.

Description

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 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.

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.

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