

Recombinant Murine gamma-Interferon Inducible Protein 10/CXCL10

Information

Gene ID	15945
Accession #	P17515
Alternate Names	Gamma-IP10, Small-inducible Cytokine B10, C7, Interferon-gamma Induced Protein CRG-2
Source	Escherichia coli.
M.Wt	Approximately 8.7 kDa, a single non-glycosylated polypeptide chain containing 77 amino acids.
AA Sequence	IPLARTVRCN CIHIDDGPVR MRAIGKLEII PASLSCPRVE IATMKKNDE QRCLNPESKT IKNLMKAFSQ KRSKRAP
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 biologically active determined by a chemotaxis bioassay using human peripheral blood lymphocytes is in a concentration range of 0.1-10.0 ng/ml in the presence of IL-2.
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
Recombinant Murine gamma-Interferon Inducible Protein 10/CXCL10	5µg	100µg	500µg

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- 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

Quality Control

Purity	> 97 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/μg of rMuIP-10/CXCL10 as determined by LAL method.

Description

CXCL10 also known as IP-10 is belonging to the CXC chemokine family. It is encoded by the CXCL10 gene, and in murine it is also named the CRG-2 gene. The gene was originally identified as an immediate early gene induced in response to macrophage activation. This chemokine elicits its effects by binding to the cell surface chemokine receptor CXCR3. CXCL10 has been shown to be a chemoattractant for activated T-lymphocytes and monocytes/macrophages. It also has other roles, such as promotion of T cell adhesion to endothelial cells, and inhibition of bone marrow colony formation and angiogenesis. Murine CXCL10 shares approximately 67 % amino acid sequence identity with human CXCL10.

Reference

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2. Luster AD, Jhanwar SC, Chaganti RS, et al. 1987. Proc Natl Acad Sci U S A. 84:2868-71
3. Vanguri P, Farber JM. 1990. J Biol Chem. 265:15049-57
4. Booth V, Keizer DW, Kamphuis MB, et al. 2002. Biochemistry. 41:10418-25
5. Dufour JH, Dziejman M, Liu MT, et al. 2002. J Immunol. 168:3195-204
6. Angiolillo AL, Sgadari C, Taub DD, et al. 1995. J Exp Med. 182:155-62.

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