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PA1164X OriGene EU

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Recombinant Mouse MIG (CXCL9) CXCL9 Alternate names: **Catalog No.:** PA1164X **Quantity:** 20 µg **Concentration:** 1 mg/ml **Background:** CXCL9 is a chemoattractant for activated T cells and possess angiostatic activity. Both CXCL9 and CXCL10 have been considered as important components for the anti-tumour activities of interferon-gamma (IFNgamma) and interleukin-12 in animal models. Mouse MIG is induced in THP-1 cells and in peripheral blood mononuclear cells by interferongamma but not by interferon-alpha or by lipopolysaccharide. Analysis of mouse and human genomic DNAs suggested that the Mumig and Humig genes are true mouse-human homologues. **Species:** Mouse Source: E. coli, E.coli Format: State: Sterile Filtered White lyophilized (freeze-dried) powder. Purity: >98% Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Anion-exchange FPLC. (c) Analysis by reducing and non-reducing SDS-PAGE Silver Stained. **Buffer System:** Lyophilized from a concentrated solution in water containing no additives. **Endotoxin Level:** Less than $0.1 \text{ ng/}\mu\text{g}$ (IEU/ μg) of Murine MIG. **Dimers:** Less than 1% as determined by silver-stained SDS-PAGE gel analysis. **Reconstitution:** It is recommended to reconstitute the lyophilized MIG in sterile $18M\Omega$ -cm H2O not less than $100\mu g/ml$, which can then be further diluted to other aqueous solutions. **Description:** Recombinant Mouse MIG (monokine induced by gamma-interferon) produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 105 amino acids. Recombinant Mouse MIG is purified by proprietary chromatographic techniques. AA Sequence: The sequence of the first five N-terminal amino acids was determined and was found to be, Thr-Leu-Val-Ile-Arg. Biological Activity: MIG is fully biologically active when compared to standard. The Activity is calculated by the ability to chemoattract Human lymphocytes using a concentration of 0.1-1 ng/ml. Molecular weight: 12208 Dalton. Molecular weight: 12 kDa Add. Information: Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm. 2. Analysis by RP-HPLC, using a calibrated solution of Murine MIG as a Reference Standard.

For research and in vitro use only. Not for diagnostic or therapeutic work. Material Safety Datasheets are available at www.acris-antibodies.com or on request.

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PA1164X: Recombinant Mouse MIG (CXCL9)

Storage:Lyophilized MIG although stable at room temperature for 3 weeks, should be stored
desiccated below -180C. Upon reconstitution MIG should be stored at 40C between 2-7
days and for future use below -180C. For long term storage it is recommended to add a
carrier protein (0.1% HSA or BSA). Please avoid freeze-thaw cycles.

General Readings: 1. Egesten A, Eliasson M, Johansson HM, Olin AI, Morgelin M, Mueller A, et al. The CXC chemokine MIG/CXCL9 is important in innate immunity against Streptococcus pyogenes. J Infect Dis. 2007 Mar 1;195(5):684-93. Epub 2007 Jan 18. PubMed PMID: 17262710.
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3. Wu M, Herman MA. Asymmetric localizations of LIN-17/Fz and MIG-5/Dsh are involved in the asymmetric B cell division in C. elegans. Dev Biol. 2007 Mar 15;303(2):650-62. Epub 2006 Dec 15. PubMed PMID: 17196955.

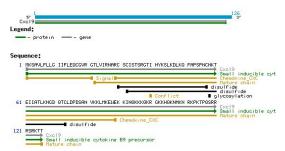
4. Ranjbaran H, Wang Y, Manes TD, Yakimov AO, Akhtar S, Kluger MS, et al. Heparin displaces interferon-gamma-inducible chemokines (IP-10, I-TAC, and Mig) sequestered in the vasculature and inhibits the transendothelial migration and arterial recruitment of T cells. Circulation. 2006 Sep 19;114(12):1293-300. Epub 2006 Aug 28. PubMed PMID: 16940188.

5. Zhang R, Tian L, Xiao F, Wen YJ, li J, Hou JM, et al. [Construction of pORF-mIG and activity evaluation of MIG in vitro]. Sichuan Da Xue Xue Bao Yi Xue Ban. 2006 Jul;37(4):502-5. PubMed PMID: 16909588.

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Pictures:

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