
Human CXCL10 (IP-10) Recombinant Protein Carrier-Free

Catalog Number: 34-8967

Also known as: Interferon Inducible Protein 10

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Contents: Human CXCL10 (IP-10) Recombinant Protein Carrier-Free

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Concentration: 0.5 mg/mL

Handling Conditions: For best recovery, quick-spin vial prior to opening. Use in a sterile environment

Source: E. coli-expressed amino acids Val22-Pro98, accession number NM_001565

Molecular Mass: 8.8 kDa

Purity: > 97%, as determined by SDS-PAGE

Endotoxin: Less than 0.01 ng/ug cytokine as determined by the LAL assay.

Bioactivity: The bioactivity of this protein was determined by transmigration assay of human T lymphocytes, with maximum chemotaxis observed at 100-200 ng/mL.

Formulation: Sterile liquid; phosphate-buffered saline, pH 7.2

Temperature Limitation: Store at less than or equal to -70°C.

Batch Code: Refer to vial

Use By: Refer to vial



Description

CXCL10, also known as IP-10 (Interferon Inducible Protein-10), is a member of the CXC family of chemokines. It is secreted by monocytes, epithelial cells, and endothelial cells in response to IFN gamma or other pro-inflammatory cytokines and stimuli. CXCL10 signaling is mediated by the G protein-coupled receptor CXCR3, which is expressed on activated T cells and plays an important role in directing the migration of T cells, especially during Th1 responses. In addition to its role as a chemoattractant, CXCL10 is also a potent inhibitor of angiogenesis and exhibits antitumor activity.

Applications Reported

Human CXCL10 Recombinant Protein Carrier-Free is biologically active.

Applications Tested

The bioactivity of this protein was determined by transmigration assay of human T lymphocytes, with maximum chemotaxis observed at 100-200 ng/mL. The ED50 for this effect is less than or equal to 50 ng/mL, which corresponds to a specific activity of greater than or equal to 2 x 10⁴ Units/mg.

References

Bodnar RJ, Yates CC, Rodgers ME, Du X, Wells A. IP-10 induces dissociation of newly formed blood vessels. *J Cell Sci.* 2009 Jun 15;122(pt 12):2064-77.

Hung CH, Chu YT, Hua YM, Hsu SH, Lin CS, Chang HC, Lee MS, Jong YJ. Effects of formoterol and salmeterol on the production of Th1- and Th2-related chemokines by monocytes and bronchial epithelial cells. *Eur Respir J.* 2008 Jun;31(6):1313-21.

Loetscher M, Gerber B, Loetscher P, Jones SA, Piali L, Clark-Lewis I, Baggiolini M, Moser B. Chemokine receptor specific for IP10 and mig: structure, function, and expression in activated T-lymphocytes. *J Exp Med.* 1996 Sep 1;184(3):963-9.

Related Products

14-8963 Mouse CXCL10 (IP-10) Recombinant Protein
BMS284INST* Human IP-10 Instant ELISA

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