
Human CXCL10 (IP-10) Recombinant Protein

Catalog Number: 14-8967

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

 **Catalog Number:** 14-8967

Concentration: 0.1 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, 1 % BSA, 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 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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