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32-1919: IP 10 Recombinant Protein

Alternative Name :	Small inducible cytokine B10,CXCL10,10 kDa interferon-gamma-induced protein,Gamma-IP10,IP-10,chemokine (C-X-C motif) ligand 10,C7,IFI10,INP10,crg-2,mob-1,SCYB10,gIP-10.

Description

Source : Escherichia Coli. IP-10 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 77 amino acids and having a molecular mass of 8.5kDa. The IP-10 is purified by proprietary chromatographic techniques. Chemokine (C-X-C motif) ligand 10 (CXCL10) is a small cytokine belonging to the CXC chemokine family that is also known as 10 kDa interferon-gamma-induced protein (-IP10 or IP-10). CXCL10 is secreted by several cell types in response to IFN-. These cell types include monocytes, endothelial cells and fibroblasts. CXCL10 has been attributed to several roles, such as chemoattraction for monocytes and T cells, promotion of T cell adhesion to endothelial cells, antitumor activity, and inhibition of bone marrow colony formation and angiogenesis. The gene for CXCL10 is located on human chromosome 4 in a cluster among several other CXC chemokines. This chemokine elicits its effects by binding to the cell surface chemokine receptor CXCR3. The three-dimensional crystal structure of this chemokine has been determined under 3 different conditions to a resolution of up to 1.92A.

Product Info

Amount :	25 µg
Purification :	Greater than 97.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Content :	Lyophilized from a 0.2µm filtered concentrated (0.5mg/ml) solution in 20mM PB, pH 7.4 and 150mM NaCl.
Storage condition :	Lyophilized IP-10 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CXCL10 should be stored at 4°C between 2-7 days and for future use below -18°C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.
Amino Acid :	VPLSRTVRCTCISISNQPVNPRSLEKLEIIPASQFCPRVEIIATMKKKGEKRCLNPESKA IKNLLKAVSKEMSKRSP.

Application Note

It is recommended to reconstitute the lyophilized IP-10 in sterile 18MÃ□Â©-cm H2O not less than 100Ã□Âµg/ml, which can then be further diluted to other aqueous solutions. Determined by its ability to chemoattract human T-Lymphocytes using a concentration range of 10-100ng/ml corresponding to a Specific Activity of 10,000-100,000IU/mg.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.