

Product Data Sheet

Cat # RP-1047

Recombinant Human IP-10 (CXCL10), His Tag

**Size:** 5 ug

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 ( $\gamma$ -IP10 or IP-10). CXCL10 is secreted by several cell types in response to IFN- $\gamma$ . 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 1.92Å.

**Source:** *Escherichia Coli*. IP-10 His Tag produced in E.Coli is single, a non-glycosylated, Polypeptide Human Recombinant chain containing 77 amino acids fragment (22-98) and having a total molecular mass of 8.5 kDa with an amino-terminal hexahistidine tag. The IP-10 His is purified by proprietary chromatographic techniques. IP-10 His is supplied in 1x PBS and 50% glycerol.

**Applications and Suggested Dilutions:** Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE. Users must optimize the appropriate concentration and conditions for each assay.

**Storage and Stability:** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4°C for ~1 week or aliquots in suitable size and store at -20°C for long term storage. **Please avoid freeze thaw cycles.**

**Usage:**

This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals

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