HB220225

# Recombinant Human gamma-Interferon Inducible Protein 10/CXCL10 (Human IP-10/CXCL10)

## Product Information

| Product Name | Cat# | Size |
|---|---|---|
| Recombinant Human gamma-Interferon Inducible Protein 10/CXCL10 (Human IP-10/CXCL10) | 90912ES08 | 5 μg |
| | 90912ES60 | 100 μg |
| | 90912ES76 | 500 μg |

## Product Description

(C-X-C motif) ligand (CXCL)10 (CXCL10), also known as IP-10, belongs to the ELR(-) CXC subfamily chemokine. CXCL10 was originally identified as an IFN-gamma -inducible gene in monocytes, fibroblasts and endothelial cells. It has since been shown that CXCL10 mRNA is also induced by LPS, IL-1 beta, TNF- alpha, IL-12 and viruses. CXCL10 was originally identified as an IFN-gamma -inducible gene in monocytes, fibroblasts and endothelial cells. CXCL10/IP-10 exerts its function through binding to chemokine (C-X-C motif) receptor 3 (CXCR3), a seven trans-membrane receptor coupled to G proteins. CXCL10/IP-10 and its receptor, CXCR3, appear to contribute to the pathogenesis of many autoimmune diseases, organ specific (such as type 1 diabetes, autoimmune thyroiditis, Graves' disease and ophthalmopathy), or systemic (such as rheumatoid arthritis, psoriatic arthritis, systemic lupus erythematosus, mixed cryoglobulinemia, Sjögren syndrome, or systemic sclerosis). In adition, CXCL10 has been reported to be a potent inhibitor of angiogenesis and to display a potent thymus-dependent antitumor effect.

## Product Properties

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| **Synonyms** | Gamma-IP10, Small-inducible Cytokine B10 |
| **Accession** | P02778 |
| **GeneID** | 3627 |
| **Source** | E.coli-derived Human IP-10/CXCL10, Val22-Pro98. |
| **Molecular Weight** | Approximately 8.6 kDa. |
| **AA Sequence** | VPLSRTVRCT CISISNQPVN PRSLEKLEII PASQFCPRVE IIATMKKKGE KRCLNPESKA IKNLLKAVSK EMSKRSP |
| **Tag** | None |
| **Physical Appearance** | Sterile Filtered White lyophilized (freeze-dried) powder. |
| **Purity** | > 97% by SDS-PAGE and HPLC analyses. |
| **Biological Activity** | The biological activity determined by a chemotaxis bioassay using human peripheral blood T-lymphocytes is in a concentration range of 10-50 ng/mL. Fully biologically active when compared to standard. |
| **Endotoxin** | < 1.0 EU per 1μg of the protein by the LAL method. |
| **Formulation** | Lyophilized from a 0.2 μm filtered concentrated solution in 20 mM PB, pH 7.4, 50 mM NaCl. |
| **Reconstitution** | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20℃. Further dilutions should be made in appropriate buffered solutions. |

## Shipping and Storage

The products are shipped with ice pack and can be stored at -20℃ to -80℃ for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

## Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only!