
Product Data Sheet

Product Name: IP 10 Rhesus macaque
 Cat. No.: GP21139
 Batch No.: 1

Product Data

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|---------------------|---|--------------------|-----------------------|
| Purity | >98% | Source | Escherichia Coli. |
| Physical Appearance | solid | Shipping Condition | Shipped at Room temp. |
| Synonyms | C-X-C motif chemokine 10; 10 kDa; Gamma-IP10; IP-10; Small-inducible cytokine B10; CXCL10; SCYB10. | | |
| Amino Acid Sequence | IPLSRTVRCT CISISNQPVN PRSLEKLEII PPSQFCPHVE IIATMKKKGE KRCLNPESKA IKNLLKAVSK ERSKRSP. | | |
| Solubility | It is recommended to reconstitute the lyophilized IP-10 in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions. | | |
| Formulation | Lyophilized from a 0.2μm filtered concentrated solution in 16 ^L PBS, pH 7.4. | | |

Introduction

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 IP-10. CXCL10 is secreted by several cell types in response to IFN-γ. 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.

Biological Activity

Determined by its ability to chemoattract human peripheral blood T-Lymphocytes using a concentration range of 10.0-100.0 ng/ml.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Stability

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.

Background

IP-10 Rhesus macaque Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 77 amino acids and having a molecular mass of 8.7kDa. The IP-10 is purified by proprietary chromatographic techniques.

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