

**Product Name: CXCL10 (IP-10)**

Catalog Numbers: CXCL10-5ug CXCL10-20ug CXCL10-50ug CXCL10-100ug CXCL10-1mg

**DESCRIPTION**

<b>Source</b>	E. coli derived Accession # P02778 (22-98)
<b>Modification</b>	None
<b>Actual Molecular Mass (Mass Spec)</b>	Mol weight confirmed by mass spec
<b>Predicted Molecular Mass</b>	8.646 kDa
<b>Extinction Coefficient</b>	480 M <sup>-1</sup> cm <sup>-1</sup>
<b>Protein Sequence</b>	VPLSRTVRCISISNQPVNPRSLEKLEIPASQFCPRVEIIATMKKKGKRCCLNPESKAIKNL LKAVSKERSKRSP

**SPECIFICATIONS**

<b>Activity</b>	EC50 = 6.3nM determined by Migration Assay in cells expressing recombinant CXCR3
<b>Endotoxin Level</b>	<0.01 EU per 1µg of the protein by the LAL method
<b>Purity</b>	> 97% by SDS PAGE
<b>Formulations</b>	Lyophilized
<b>Carrier Protein</b>	None

**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Spin tube prior to resuspending. Recommended at 100µg/mL in sterile water
<b>Shipping</b>	Room Temp

**Stability and Storage****Avoid repeated freeze-thaw cycles**

- 12 months from date of receipt, -20 to -70 °C as supplied.
- Suggest to use immediately after reconstitution
- 1 month at -20 to -70 °C under sterile conditions after reconstitution.

**BACKGROUND****Description**

CXCL10 (IP-10) was originally identified as an IFN-gamma-inducible gene in endothelial, fibroblasts and monocytes cells. IP-10 is considered a member of the CXC chemokine subfamily from its protein sequence which includes the four conserved cysteine residues present in CXC chemokines. IP-10 signals through the CXCR3 receptor to selectively attract Th1 lymphocytes and monocytes. It also has angiostatic and mitogenic properties on vascular smooth muscle cells. A diverse population of cell types rapidly increases transcription of mRNA encoding IP-10, which suggests that gamma-induced protein may be a key mediator of the IFNG/IFN-gamma response.

**References:**

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5. "Processing of natural and recombinant CXCR3-targeting chemokines and implications for biological activity." Hensbergen P.J., van der Raaij-Helmer E.M.H., Dijkman R., van der Schors R.C., Werner-Felmayer G., Boersma D.M., Scheper R.J., Willemze R., Tensen C.P. Eur. J. Biochem. 268:4992-4999(2001)
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